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Metal Mines and Mineral Occurrences in the General Survey Area Appendix 2

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	I Citato	Ge	Geology of Ore Deposit	History . Production
1 1	120411011	Host rock	Mineralisation	
1	North of the General Survey Area	Dalny-Deloia fractured zone in Lower Greenstones, Bulawayan Group	Formed along the NE-SW trend shear-zone including Dlany, Pixy, Stella, Turkois, Arlandzer	Owned and operated by Falcon Mines Ltd. 350,000t/y of ore including ore from
	•		One of the largest gold producing area 8km long from NF to 8W	Venice mine treated
			Shear-zone type with few quartz reef	Average of grade is 4-5g/t in case of Arlandzer
			Dalny: 1200m x 1000m x 0.8m (width) Pixy: 600m x 600m x <1.0m Arlandzer: 600m x 600m x <1.0m As WO ₃ Zn Cu unineralisation accompanied with Au	
Golden Valley Area	15km NW of Kadoma	Bulawayan Lower Greenstones	NNE trend quartz reef type 35-40°W dipping The area includes Golden Valley and Patchway mine	
	10km North of Kadoma East of Lion	Lower Bulawayan Group	Quartz reef type at Felsite/Greenstone contact	
Big Ben Area	HIII Stock	S. A.	Elements accompanied are Cu, As, Pb, Sb	Rio Tinto of Zimbabwe reopened in 1966 Now closed
-	NW end of Whitewaters Suite	Lower Bulawayan Group	N~NNE-trend quartz reef hosted at contact of different lithofacies and parallel to the cleavage of the 1st stage deformation Subordinate element: Co, Ni Cu Pb Zn Sb	

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Liston Drodinston	Tistory (1) occurrent	The largest gold mine since 1900. In 1960 RTZ purchased from Lonrho Closed in 1968 Developed 2000m deep from surface Had been the No.1 producer 1923-1966	Intermittent operation 1908-1944 85t of WO ₃ concentrate produced	Closed 4.8g/t 10Kg Au produced	S. A.	S. A. 7.3g/t	S. A. 10g/t	S. A.	S. A. 1945-55 WO ₃ conc. 96t	Closed 1931-63 7.8g/t 21kg Au	8.6g/t 24kg	1912-14 2.8g/t 23kg		
Geology of Ore Deposit	Mineralisation	Quartz reefs at the NE-trend shearzone — drag folding crossing point Arsenic, E and N-trend quartz reef converging to the depth Approx. 20 Mt ore of 11g/t mined	WO3-Mo-quartz reef, Post Au Striking N70E	N78W/44N Pb-Py Quartz			A swarm of gabbro dike around ore		Within basalt near basalt/sericite-quartz schist contact	N78E/40S W(width) <100cm	N45E/60N W= 140cm in average		N75E/50.70S WO3-Au-quartz	
Geolog	Host rock	Normal Sediment/Greenstone contact, Lower Bulawayan	Shear-zone within the White waters Suite	Lower Bulawayan (Dacite/Basalt contact)		Shamvaian Group	Lower Bulawayan	S. A.	S. A.	S. A.	S. A.	S.A.	S. A.	
	Location	East of Kadoma	12Km west of Kadoma	Area A		East of area A	Area A	S. A.	S. A.	Area A	S. A.	S. A.	S. A.	
Mining Area	or Mine	Eiffel Flats Area Cam & Motor	Scheelite King	Monastery	Rocky Blue	Minerva	Cobhurst	Affaire	Umsweswe	Impala	IXT.	George	Heroin	
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Hietory , Production	ייייייין דיייייייי	eralised with 1927.42 3g/t	tion 4.5g/t	nticlinorium 1906-65 15.1g/t 6.7kg	rend arsenic Working 7.7g/t 3096kg h	ith As limonite	n surface a As Py +Po	op.	Closed 1917~50 13.7g/t 52.3kg	S. A. 2.8g/t 11.45kg	oxidation zone was mined out in open pit mining. Non oxidation zone not	•		reef 1952 1.42t scheelite produced
Geology of Ore Deposit	Mineralisation	Lateral extension 300m, Pb Zn Cu mineralised with Au 90cm in width of quartz reef	Granite dike at NE/NW-trend cross-section	Quartz reef at the crest of NE-plunge Anticlinorium max. width=1.5m Pb Cu Py mineralised	What Cheer: quartz reef type NE~E trend arsenic calcite dominant in depth	Venice : N60E/30.40S W=1~5m shear-zone mineralised with As limonite	calcite magnesite Oxidized 300m deep from surface Nando : Stratiform mineralisation As Py Onter halo is low An+Pv+Po	Open pit size Pinkun : Hanging wall side of Nando	N25W/45W Py As Sb mineralised	N60w/50S shear-zone type?	One Step: Network of quartz stringer W=0~45cm	Secondary Au enrichment at the base of oxidation zone East Step: two quartz reef systems	NE-trend /45 SE N-trend /62°E W=100-150cm	Cato : Scheelite-stibnite quartz reef
	Host rock	Lower Bulawayan	S. A.	S. A.	S. A.				Upper Bulawayan Felsic Formation	- The state of the	S. A.			
I continue	Location	West of Area	Area A	15km SSW of Kadoma					Area B	1 1	· .		:	:
Mining Area	or Mine	Rise Up	Green Valley	Kanyemba	Venice Area				Cricket	Gold Beetle	Cato Group			
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Mining Area		Geolog	Geology of Ore Deposit	History - Production
or Mine	Location	Host rock	Mineralisation	ŀ
Challenge	Area B	Upper Bulawayan Felsic Formation	Hosted at Felsic intrusive/contact	10.7g/t 45kg Au
Leonada		S. A.	N-S/E dip	
Monarch	:	S. A.		11.9g/t 2.15kg
Union Jack		S. A.		14.8g/t 1359kg
Nellie		S. A.	Ne-trend dipping 70°SE	. :
Star		S.A.	SW-trend	1941 0.59kg
Dan		S. A.	N-trend dipping E	1934-37 4.2g/t 23.02kg
Redan		S.A.		7g/t 42.2kg
Clissy		. A. A.	Hosted at Greenstone/Felsic rock contact arsenic	To 30m deep developed 10.3g/t 5626kg
Oro Bredo		S. A.	As Sb mineralised refractory Au	To 60m deep developed 9.9g/t 96.42kg
Rich Money		S.A.		
Clover	·.	Granite intruding into Shamvaian	Sb accompanied with Au	17.42kg
Ballarat		Kwekwe Ultramafic		
Maki Pashoz		S. A.		2.6g/t 153.4kg
Anna		S. A.	Cu accompanied with Au	
Mid Kento		S. A.	Carbonated shear zone	

Production		Exploited to 15m deep	Exploited to 35m deep	6.4g/t 4.23kg	8.8g/t 26.97kg	7.6g/t 50.24kg	1924-42 7.5g/t 32.41kg	1941.45 16.4g/t 15.33kg	1914-56 8.5g/t 301.1kg Developed down to 90m	. :		5.4g/t 85.08kg	4.0~15g/t Atlanta recorded 357kg. Au recovered, the largest of them Each developed to less than 100m deep
Geology of Ore Deposit	Mineralisation	Au-Stibnite bearing quartz reef	E-W strike, 70-80S dip W=60cm	N-S strike W=60cm	NE-trend 30cm wide quartz reef Free gold and Py Cp Po ±Sb Pb As as accompanying elements		Two system of E-W, N-S quartz W=30-100cm	Po Px As accompanying quartz 40cm wide	N40E/52SE As Po mineralised 90m x 1.2m(w) x >90m	Cu deposit	S.A.	Auriferous quartz reef	Trial, Atlanta, Alley, Napini, Yellow Snake, Medway, Gamecock, Lonely Valley Swann mine Strike varies from E-W as Yellow Snake to N~NW as Medway W=40-100cm
Geologi	Host rock	Upper Bulawayan Felsic Formation	S. A.	S.A.	Andesite Upper Bulawayan Maliyami Formation	S. A.			Doleritic greenstone	Kwekwe Utramafic rock	S. A.	Upper Bulawayan Banded Iron Formation	Kwekwe Gneiss
	Location	Area B			Area C			:		Area D			
Mining Area	or Mine	Austin	Janet	Iripo	Cuba	Umniati	Old Crick	Rose Marie	Somerset	Cuprum	Rosstach	Mac Angus	Rhodesdale Group
							A -	81					

Mining Area or		•		
or		801095	Geology of Ore Deposit	
Mine	Location	Host rock	Mineralisation	History · Production
Globe & Phoenix	Kwekwe	Kwekwe Ultramasic rock	Principal reef trends NNE othes NNW, EWE. Consists of Globe and Phoenix section Phoenix Main reef is 200m long, 1.2~2.5m wide	Current production: 3000t/month with 3~5g/t Au Developed down to 1550m deep
Gaika	SW of Kwekwe			Au recovery from old dump
Black Prince	Area E			
	10Km west of Kwekwe	Sandstone in Shamvaian Group	N35W/30° approx. 100m over a strike W=30-60cm	Closed lately (1986) Produced 1.5kg/month Worked to a depth of 240m
Bristol	SKm N of Kwekwe	Upper Bulawayan Banded Iron Formation	NS/70E W=1m Au assay of surface exposure is 40-50g/t	Under development
Riverlea	4Km W of Kwekwe	Arenaceous to conglomerate, Shamvaian Group	Bell mine Riverlea mine: lense-shape deposit W=2m approx.	Working on Riverlea 5~6g/t, 30-36kg/m Developed to 240m deep
Tiger Reef	10Km NW of Kwekwe	Sandstone, Shamvaian Group	NE-SW strike dipping 85°NE average W=5m 350m long over a strike	1920-40 3.4g/t 1980 Lohrho reopened Current production is 24kg Au/m from ore of 3.5g/t

Appendix 3 Results of Microscopic Observation of Thin Sections

Abbreviation

Primary Minerals

Ol : Olivine

Cpx: Clinopyroxene

Opx: Orthopyroxene

Ho: Hornblende

Mc : Muscovite

Bi : Biotite

Pl : Plagioclase

Kf : Potash feldspar

Qz: Quartz

Fe: Iron minerals

Rock Name

Hbd: Hornblendite

Spt: Serpentinite

GD: Granodiorite

Pyrt : Porphyrite

Qz dr: Quartz diorite

Tonal: Tonalite

Adm: Adamellite

Qz pyr: Quartz porphyry

Bs(lap)tf: Basaltic (lapilli) tuff

Inmd tf: Intermediate tuff

Fs lap tf: Felsic lapilli tuff

Congl: Conglomerate

Phyl: Phyllite

Sch: Schist

Secondary Minerals

Amp : Amphibole

Cal : Calcite

Chl : Chlorite

Sc : Sericite

Ab : Albite

Ep : Epidote

Tal: Talc

Ser : Serpentine

Qz : Quartz

Bi : Biotite

Pyr : Pyrophyllite

Cor : Cordierite

Symbol

-No.1~No.38 Phenocryst

No.39~No.52 Rock fragment

No.1~No.38 Groundmass

No.39~No.52 Matrix

abundant

O medium

present

? assumed

Texture

por : porphyritic

sbop: subophitic

oph: ophitic

hyalc: hyaloclastic

int : intersertal

pilo: pilotaxitic

holo: holocrystalline

eqg : equigranular

poik: poikilitic

amg: amygdaloidal

hf: hornfels

porbl: porpyroblastic

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E6-2 E Ho-Tonal	Ho-Tonal		9	9	2		, I	<u>Ø</u>			9		•	,		 	•	<u> </u>				
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Appendix 4 Results of Microscopic Observation of Polished Sections

Abbreviation Sample No. Ore minerals G&P: Globe and Phoenix Au: Native gold Py : Pyrite Pyrrhotite Po: EPMA test Arsenopyrite As: Δ qualitative analysis Bo: Bornite O quantative analysis Cc: Chalcocite composition image Cp: Chalcopyrite Gn: Galena Sp: Sphalerite Tet: Tetrahedrite Enargite Enr: Hematite Hm: Legend 0 abundant 0 medium

present

Co Cyp Gn Sp 1et Enr Him Framboidal Py Au in Py or individual grains Au in Py or individual grains Au enclosed in Py Sp As and individual grains Au enclosed in Py Sp As and individual grains S. A.* Amoeba like shaped gold accompanied by Py S. A. Tet coexists with Po Gn Tet coexists with Po Gn	-		,	ļ	,		I ⊦	ŀ ⊦	Ore		l	ŀ -	I -			Texture	EPMA Test
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S. A.* • • • Amoeba like shaped gold accompanied by Py S. A. Tet coexists with Po Gn © © © © © © © © © © © © ©	New Topaz−1	0	© •	© O	0	0		•				<u></u>				Au enclosed in Py Sp As and individual grains	00
Amoeba like shaped gold accompanied by Py S. A. Tet coexists with Po Gn O O O O	New Topaz−2 • ○ ○ ◎	0	© •	© 0	0	0		•			· ·	\bigcirc				S. A.	< □
Amoeba like shaped gold accompanied by Py S. A. Tet coexists with Po Gn O O O O	Cato B © C				0	0		•						<u>:</u>		- Tarananan	٠.
Amoeba like shaped gold accompanied by Py S. A. Tet coexists with Po Gn O O O O O O	Riverlea O O	0	0	0	0	0			:			•					
Amoeba like shaped gold accompanied by Py S. A. Tet coexists with Po Gn O	Cuba Syndicate C	©	0	0				0				····		·	•		
Amoeba like shaped gold accompanied by Py S. A. Tet coexists with Po Gn O	Cricket B O O	0	0	0	0	0											
S. A. Tet coexists with Po Gn O	G&P-4-1 ○ ○ ○ ·	• •	•	· ©	•	•				·	•	•				Amoeba like shaped gold accompanied by Py	
Tet coexists with Po Gn O	G&P-4-2 Globe & ○ ◎ •		•	• ◎	•	•		 .		<u></u>				·		S.A.	
• • •	G&P-17 Phoenix O	Phoenix O	0	0										<u>-</u>		Tet coexists with Po Gn	◁
	18 G&P-18	0	0	0	0				- 1		· O	•	•				□ 0 ∇
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	22 Somerset—3 C O O	0	0	0	0	0.											

* Same as above

Appendix 5 Results of X-ray Diffractive Analysis

Abbreviation

SHR : Shear-zone

FW : Footwall

RF : Quartz reef (Quartz Vein)

HW : Hanging wall

HW 6.5m: 6.5m from hanging wall side of reef

PR-POR: Pre-reef Porphyrite

EXM : Extreme of ore body

Symbol

© abundant

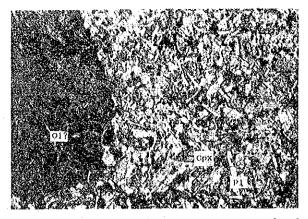
O medium

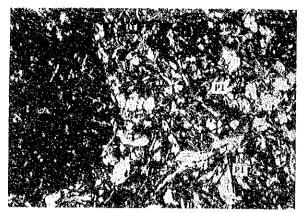
present

assumed

	Alteration Mineral	1							morillonite	tmorillonite									1		1			Note
;	Sample No.		Quartz	Plagioclace	Albite	Amphibole	Pyroxene	Epidote	Sericite/Montmorillonite	Chlorite/Montmorillonite	Sericite	Chlorite	Kaolinite	Pyrophyllite	Talc	Calcite	Dolomite	Magnesite	Ankerite	Hematite	Limonite	Pyrite		
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5	ditto	8	•						1				[•		•	0	: -					HW
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19	ditto	2	0		•		Γ				•	•				0	•			7				SHR
20	ditto	3	0		•						•	0				•	0			?				SHR
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26	ditto	9	0							•	·	•				٠								SHR
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Appendix 6 Photomicrographs of Thin Sections





Sample No.:

Open nicol

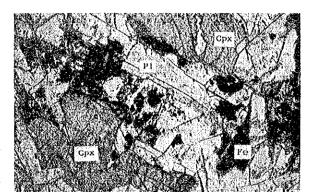
Crossed nicols

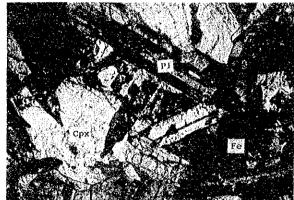
Locality

Note

: Venice Mine 6L

Rock name : (Olivine?) Basalt : Subophitic texture with xenocryst of olivine(?) 0.5mm





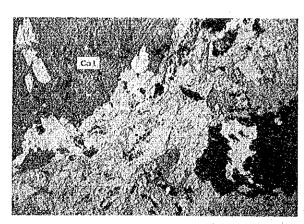
Sample No. : DAK-8

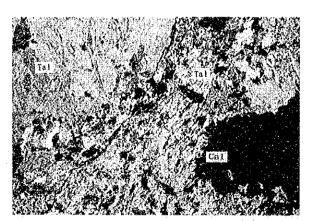
Open nicol

Crossed nicols

Locality : 8km north of KweKwe
Rock name : Dolerite

0.5mm





Sample No. : D50-16

Open nicol

Crossed nicols

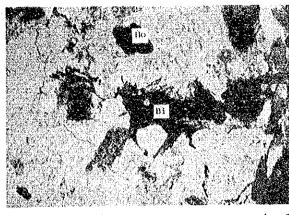
Locality : Sherwood

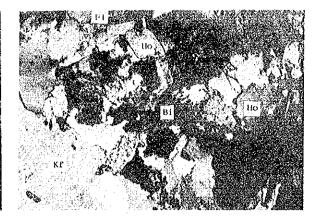
Rock name : Carbonated Ultramafic rock

0.5 mm

Note

: Intensely replaced by calcite and talc





Sample No.: G-1

Open nicol

Crossed nicols

Locality

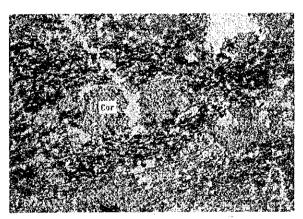
: 4km west of Venice Mine

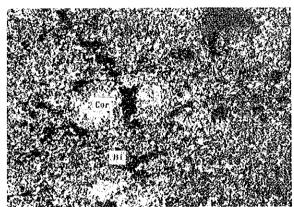
0.5mm

Rock name

: Adamellite

: K-feldspar predominant granitic rock





Sample No. : TH-13

Open nicol

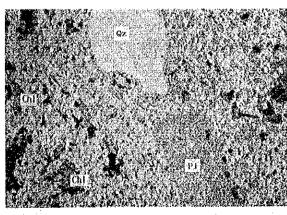
Crossed nicols

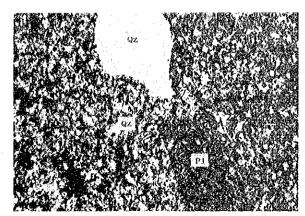
Locality Rock name

: 16km southwest of Kadoma, A area : Cordierite-Biotite-Sericite hornfels

(pelitic rock origin)

0.5mm





Sample No. : C41-4

Open nicol

Crossed nicols

Locality

: 10km west of Umniati power station, C area

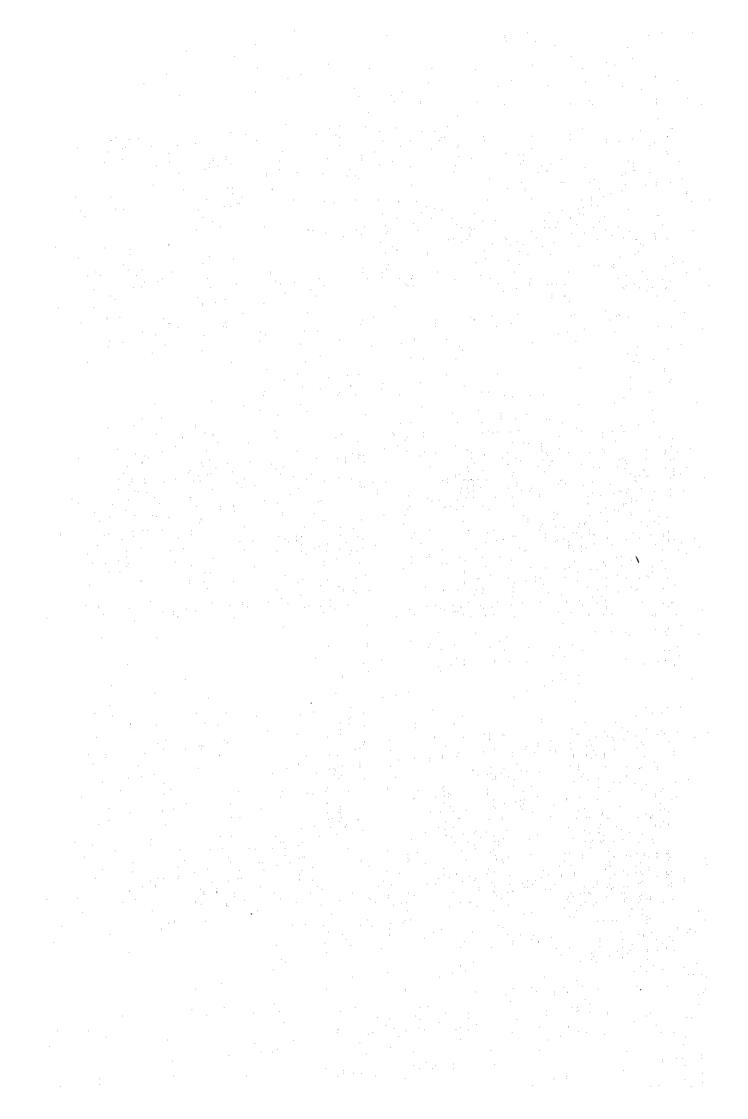
0.5 mm

Rock name

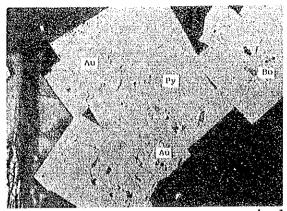
: Quatrz porphyry

Note

: Quatrz phenocryst shows coroded form

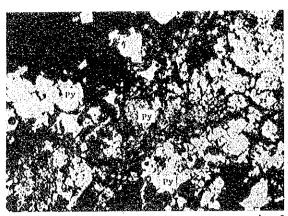


Appendix 7 Photomicrographs of Polished Sections



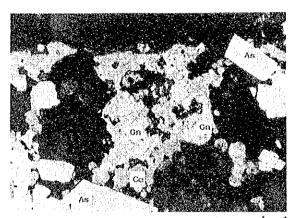
Open nicol

Sample No.: Pixy 0.1mm
Location: Dalny Mine
Note: Some small grains of native gold
and bornite embedded in pyrite



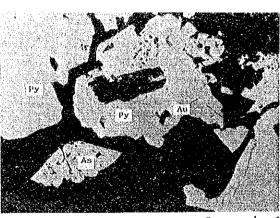
Open nicol

Sample No.: Stella 0.2mm
Location: Dalny Mine LJ
Note: Pyrite showing framboidal texture
in the center of the field



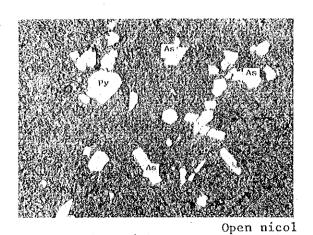
Sample No.: Unit-2

Location: Unit Mine
Note: Galena-Chalcocite intergrowth



Sample No. : Rise-Up Open nicol
Location : Rise-Up Mine
Note : Native gold enclosed in pyrite

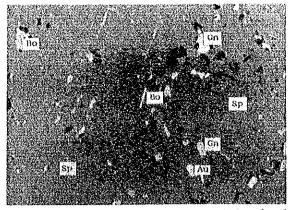
and along the crack



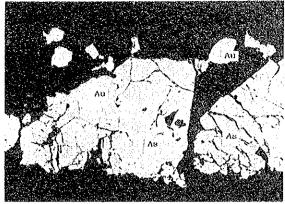
Sample No.: Cricket 0.1mm
Location: Cricket Mine
Note: Outstanding prismatic or
hexagonal crystals of arsenopyrite



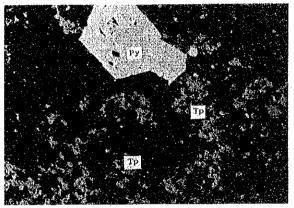
Open nicol
Sample No.: New Topaz-1-1 0.4mm
Location: New Topaz Mine
Note: Electrum contained in arsenopyrite
in the form of grain or filling
the cracks



Sample No.: New Topaz-1-2 0.2mm
Locality: New Topaz Mine
Note: Dots of electrum, bornite and galena enclosed in sphalerite

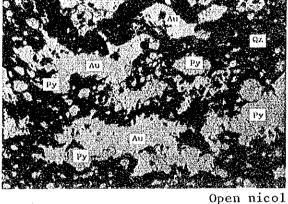


Open nicol
Sample No.: New Topaz-2 0.2mm
Locality: New Topaz Mine
Note: Electrum occuring in arsenopyrite
and gangue quartz



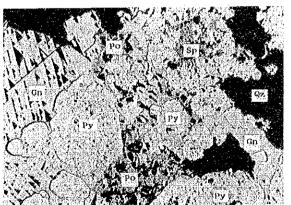
Open nicol
Sample No.: G&P4-1-1 0.1mm
Locality: Globe & Phoenix Mine
4 parallel 7L
Note: Euhedral pyrite enclosed by

clusters of tripuhyite(Tp:FeSb206)

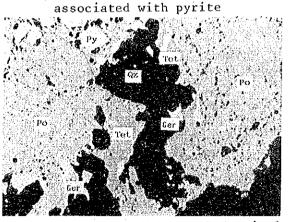


Sample No.: G&P4-2-1
Locality: Globe & Phoenix Mine 4 parallel 7L
Note: High grade gold ore

Native gold in the form of amaeba



Open nicol
Sample No.: G&P17 0.4mm
Locality :Globe & Phoenix Mine
Note: Pyrite, Pyrrhotite, sphalerite
occuring in interstitial galena



Open nicol
Sample No.: G&P-19-1 0.4mm
Locality: Globe & Phoenix Mine
Note: Tetrahedrite, Gersdorffite(Ger:
(NifeCo)AsS)occupying the rim
of pyrrhotite

