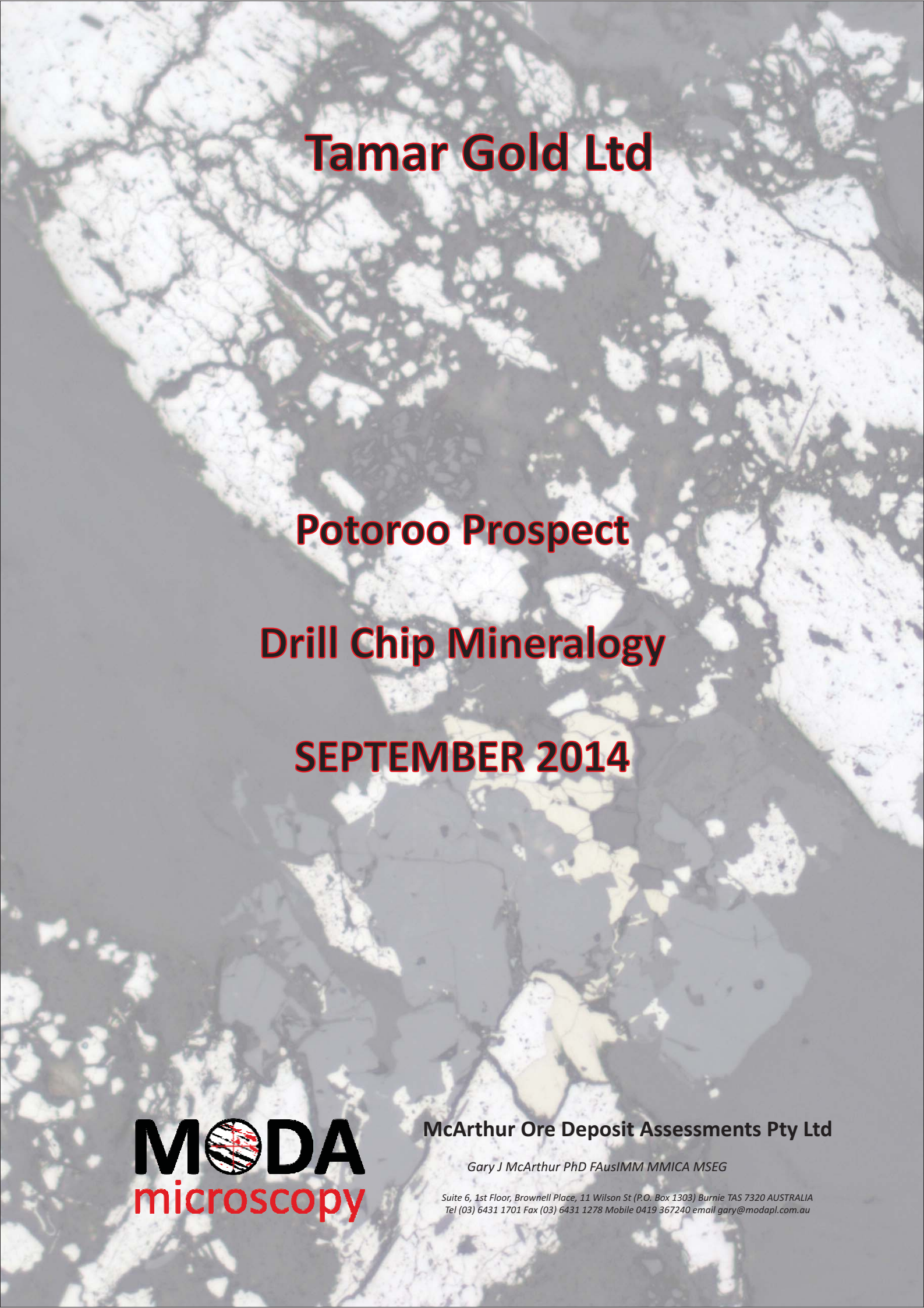


Tamar Gold Ltd

Potoroo Prospect

Drill Chip Mineralogy

SEPTEMBER 2014

MODA microscopy

McArthur Ore Deposit Assessments Pty Ltd

Gary J McArthur PhD FAusIMM MMICA MSEG

Suite 6, 1st Floor, Brownell Place, 11 Wilson St (P.O. Box 1303) Burnie TAS 7320 AUSTRALIA
Tel (03) 6431 1701 Fax (03) 6431 1278 Mobile 0419 367240 email gary@modapl.com.au

TAMAR GOLD

Potoroo Prospect
Drill Chip Mineralogy
September 2014

Method

Drillcore chip samples (DH PTR-5) from the Tamar Gold Potoroo Prospect were submitted by consultant geologist Ken Morrison for mineralogical assessment. The chips were separated into two samples based on colour [Potoroo 1 (cream), Potoroo 2 (white)] and 5-6 chips per sample were mounted as a polished thin section by Australian Petrographics (Queanbeyan, NSW). The residue from each sample was submitted to McKnight Mineralogy (Ballarat) for Quantitative X-Ray Diffraction (QXRD) analysis.

A combination of quantitative and qualitative microscopy was undertaken by MODA.

To quantify the mineralogy, each polished section was scanned using an arbitrary 132µm circular mask on a 1.7mm square grid pattern (approximately 315 circles). A visual estimate was made of the area% of each mineral present within each masked area. This provided an overall composition and mineral associations.

Each polished section was then examined qualitatively and ~15 photomicrographs captured to illustrate the textures, concentrating on the sulphides. All images were annotated using PowerPoint.

Results

Composition - QXRD

McKnight Mineralogy reported the following "semi-quantitative" composition (wt%):

MINERAL	Potoroo 1	Potoroo 2
Quartz	33.2	38.1
Albite	11.0	22.5
Labradorite	27.2	4.8
Muscovite	10.0	18.1
Chlorite	9.1	11.9
Pyrite	5.3	2.9
Microcline	1.6	1.1
Apatite	1.1	tr
Biotite	0.9	tr
Siderite	0.5	0.5
Ankerite	tr	tr
Arsenopyrite	tr	tr
Calcite	tr	tr
Epidote	tr	tr
Marcasite	tr	tr
Pyrrhotite	tr	tr

Composition – Optical Microscopy

The optical microscopy failed to differentiate the various *feldspars*, but some of the *chlorite* was observed as being degraded to isotropic *clay*. This *clay* was not reported by QXRD. The gridded optical logging gave the following results (wt%):

MINERAL	Potoroo 1	Potoroo 2
Quartz	18.2	24.6
Feldspar	45.3	7.5
Muscovite	10.5	45.6
Biotite	8.7	2.0
Chlorite	6.9	10.2
Clay	5.6	7.0
Carbonate	0.7	0
Rutile	tr	0.2
Pyrite	4.0	2.3
Chalcopyrite	0.1	0
Arsenopyrite	0	0.5
Marcasite	Tr	0
Pyrrhotite	Tr	Tr
Sphalerite	0	0

Despite a detailed search, no electrum was observed.

Textural Features

Both samples consist of an altered quartz-feldspar-biotite granitoid that is texturally homogenous in all the chips examined. *Quartz* and *feldspar* grains are generally 500µm-1.5mm across with *biotite* 200-600µm. The cream-coloured chips of Potoroo 1 were found to be coated by a thin layer of *ferruginous clay* containing ultrafine-angular *pyrite* fragments – presumably mud from drilling residues.

In both samples:

- *Plagioclase feldspars* are seen to be variably altered to fine *sericitic muscovite* and minor isotropic *clay*. Some of the less altered *feldspar* grains exhibit well-defined zonal alteration.
- *Biotite* is altered initially to a very pale green *chlorite* and thence to an unidentifiable isotropic *clay*. The *chlorite* often contains delicate networks of interlocking *rutile* needles. The typical textural habit of *biotite* is preserved through the alteration.

Potoroo #2 is substantially more altered than Potoroo #1, but contains less sulphide.

The bulk of the *pyrite* present occurs as late, vuggy crustiform infillings. Porous, amorphous *melnikovite pyrite* is present, which is variably recrystallised to crystalline *pyrite* and minor *marcasite*. *Melnikovite pyrite* is a common carrier of sub-

microscopic gold and the Potoroo *pyrite* could be microanalysed by laser ablation ICP-MS for confirmation.

In one chip of Potoroo #2, fine *arsenopyrite* crystals were observed, together with larger euhedral *pyrite*. Small *pyrrhotite* blebs were seen within the *arsenopyrite* crystals.

Although minor, *chalcopyrite* was often seen associated with crystalline *pyrite* aggregates, or as isolated small grains in gangue.

There was a complete lack of any Bi or Ag minerals.

Recommended Further Work

The small sample size raises representivity concerns. Before any microanalysis is undertaken to establish the Au grade of the various textural forms of *pyrite*, it is recommended that a sulphide concentrate be prepared from a composite of the complete interval. This can be achieved by superpanner, flotation or heavy liquid. After assessing the assay results of the sulphide concentration, further microscopy and microanalysis may be justified.

G.J.McArthur PhD FAusIMM MMICA MSEG
Principal Mineralogist
9.9.14

Polished Block – Mounted Chips

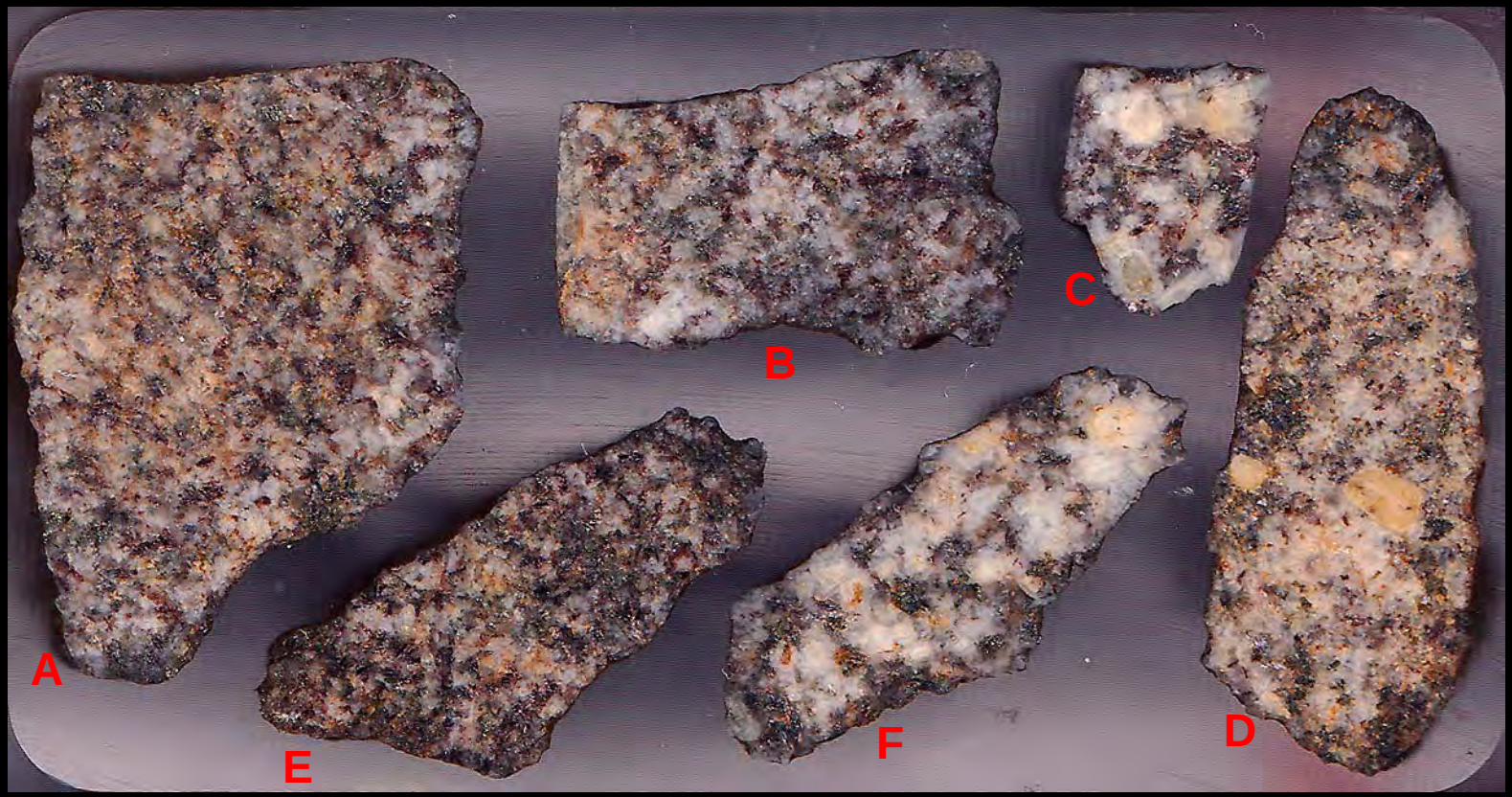
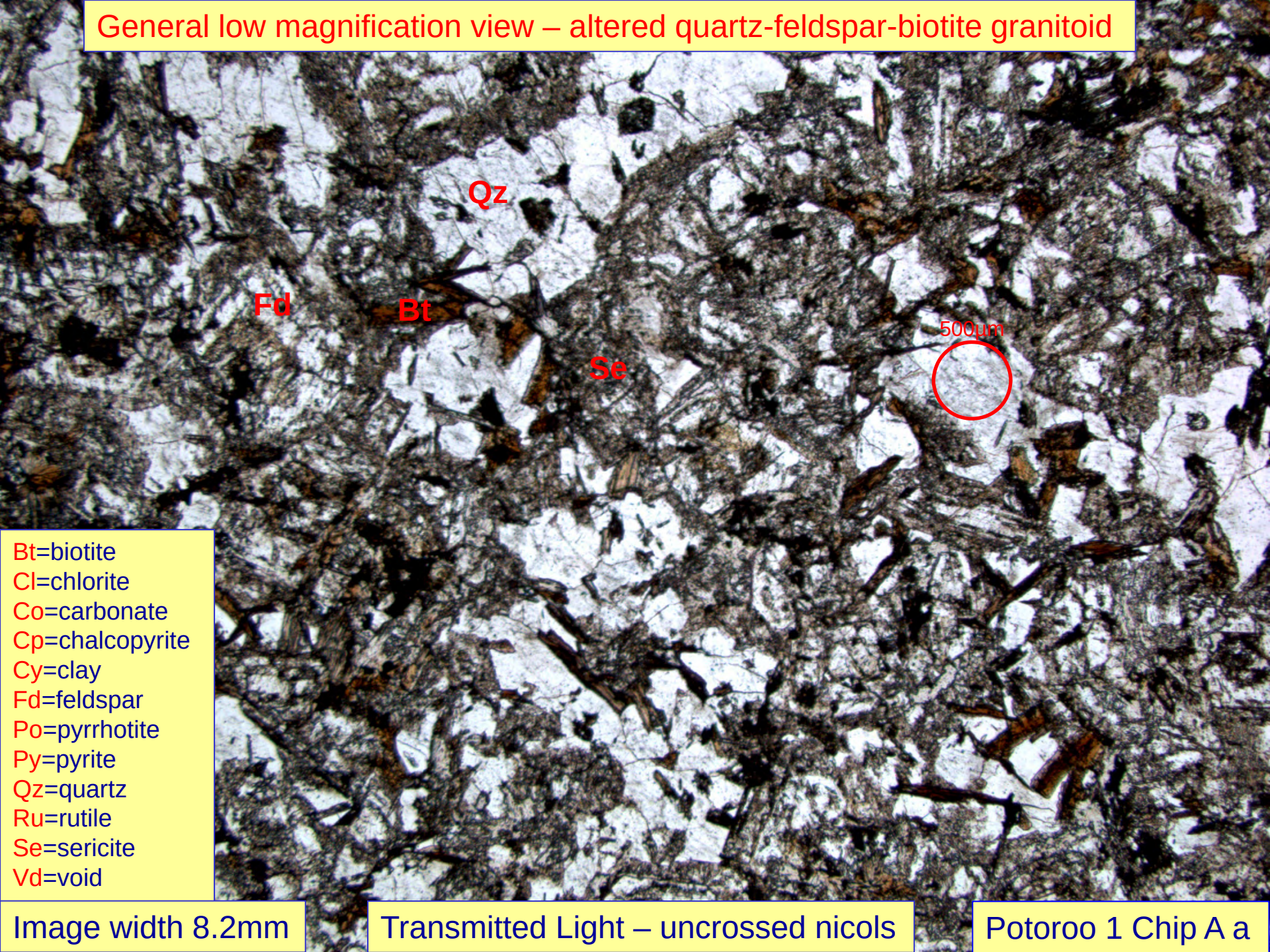


Image width 52mm (4X)

Optical scan (wet)

Potoroo 1 Block

General low magnification view – altered quartz-feldspar-biotite granitoid

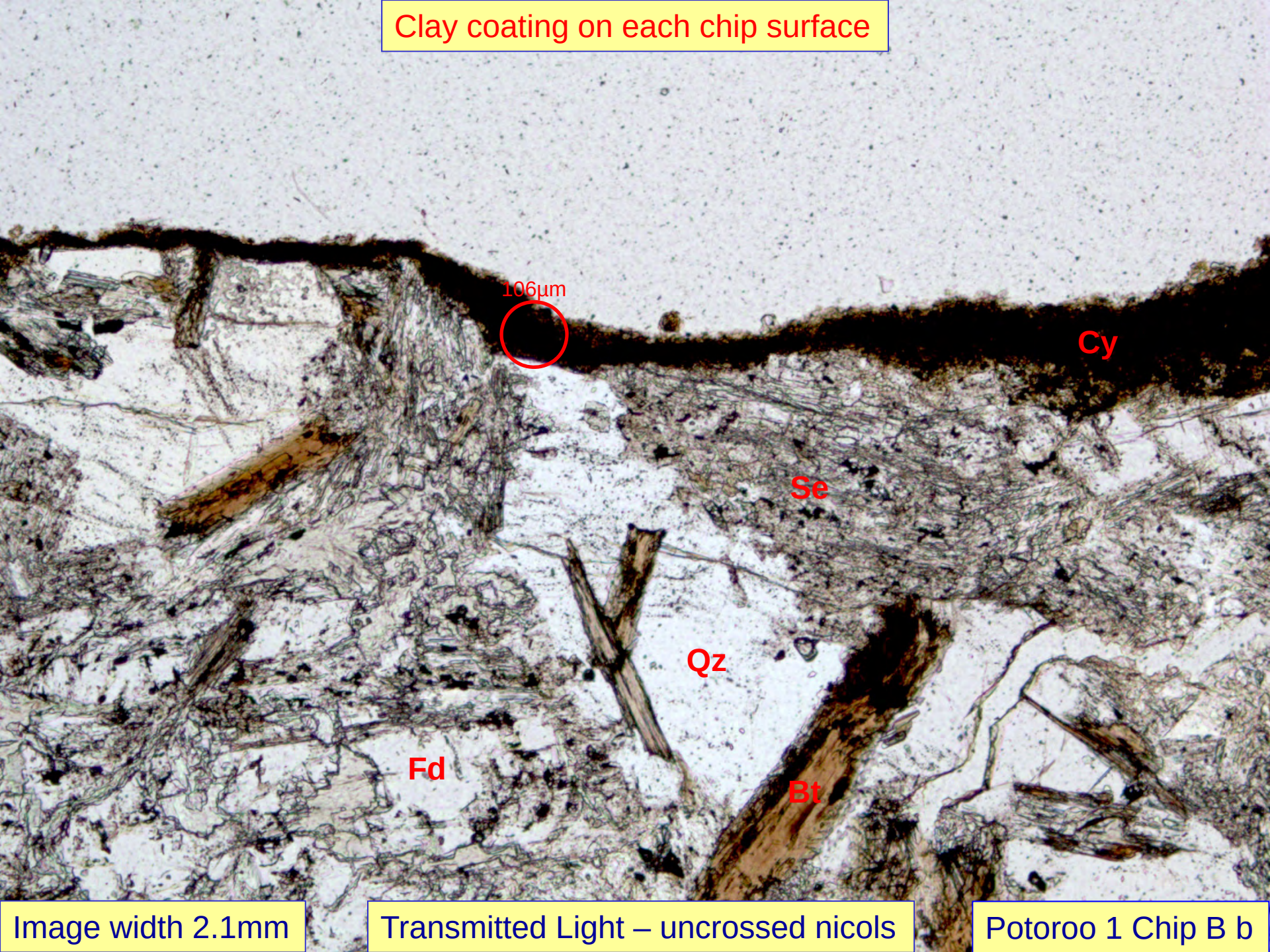


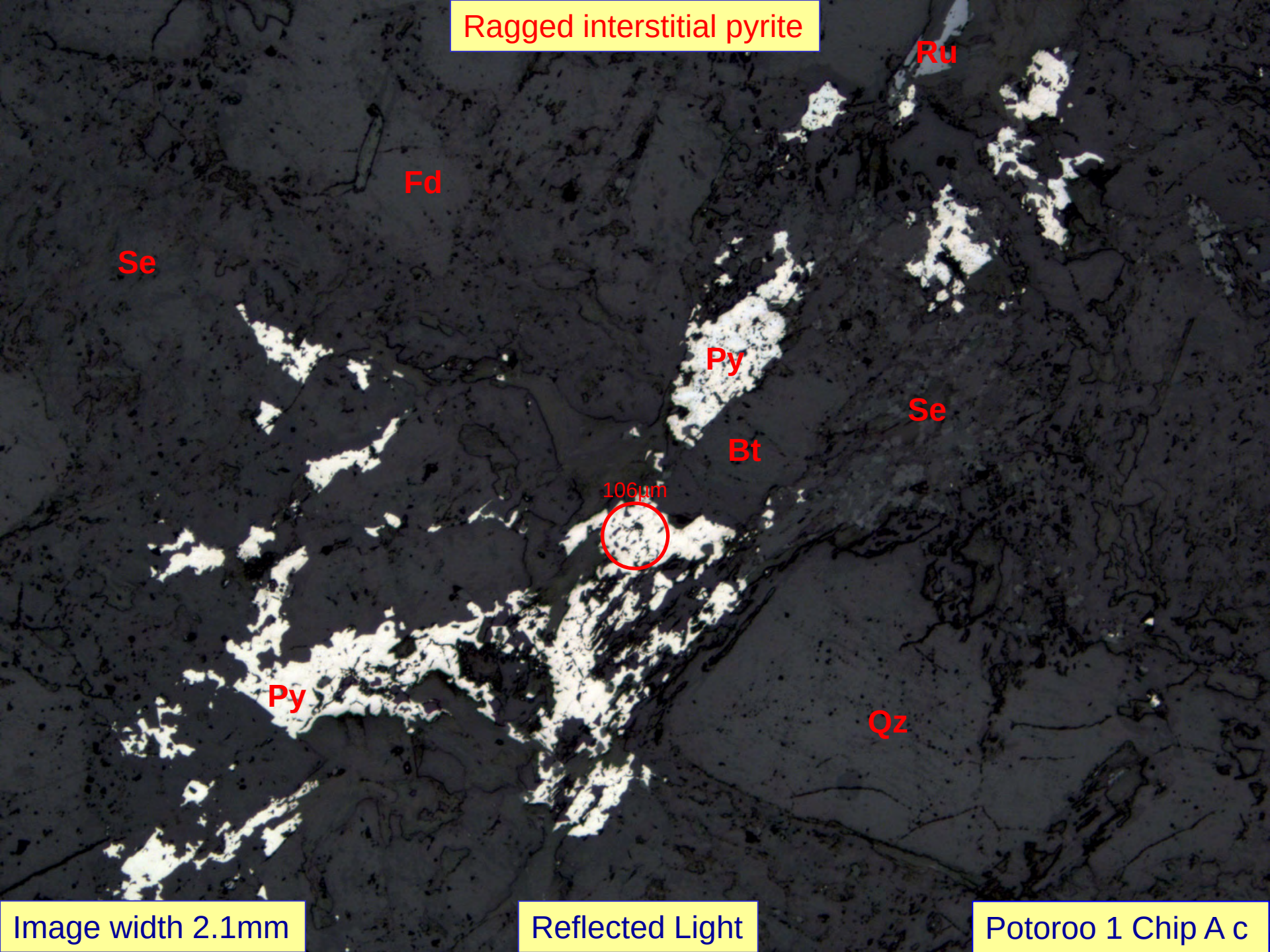
Bt=biotite
Cl=chlorite
Co=carbonate
Cp=chalcopyrite
Cy=clay
Fd=feldspar
Po=pyrrhotite
Py=pyrite
Qz=quartz
Ru=rutile
Se=sericite
Vd=void

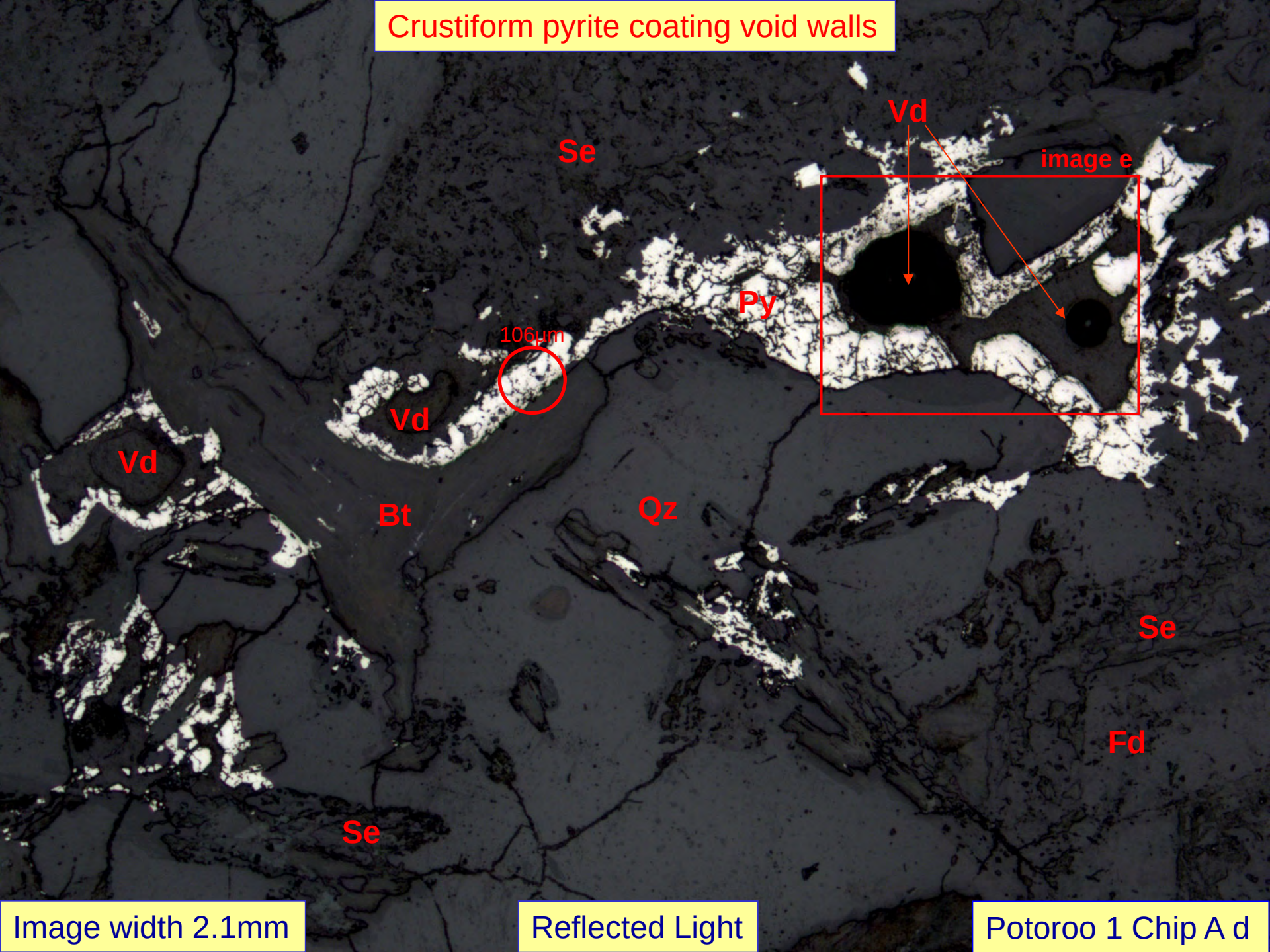
Image width 8.2mm

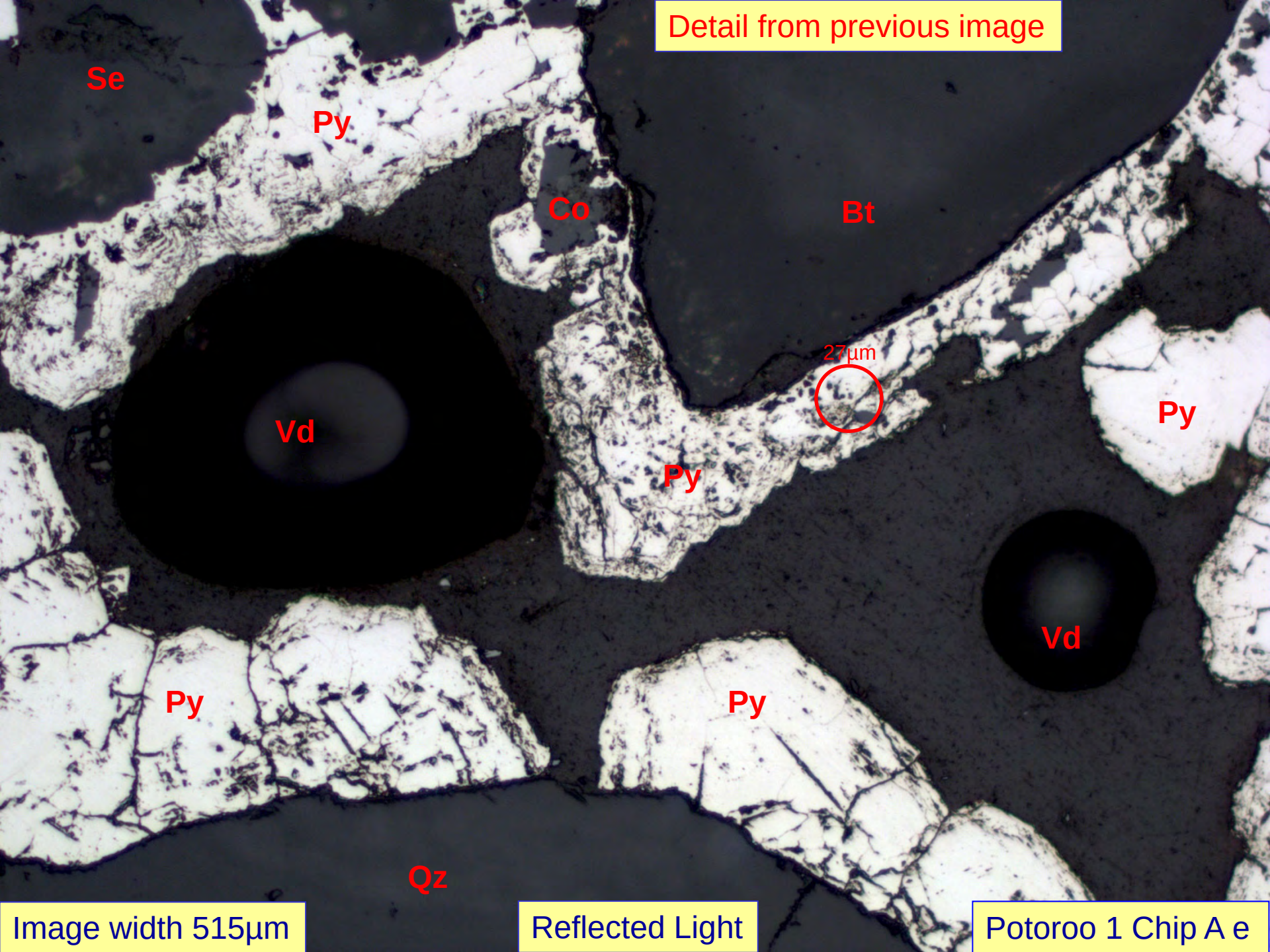
Transmitted Light – uncrossed nicols

Potoroo 1 Chip A a

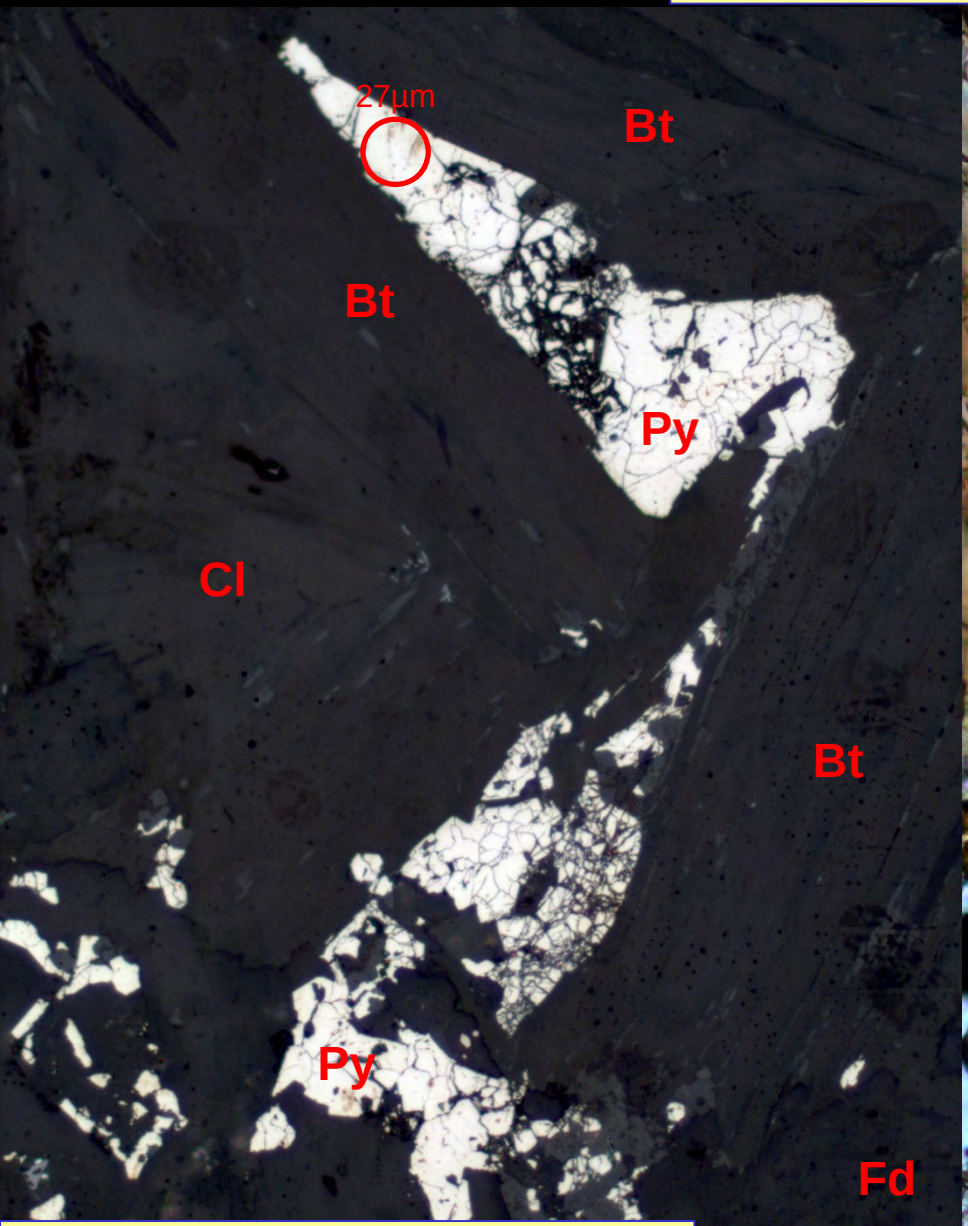

Clay coating on each chip surface
106µm
Cy
Se
Qz
Fd
Bt
Image width 2.1mm
Transmitted Light – uncrossed nicols
Potoroo 1 Chip B b


Ragged interstitial pyrite
Ru
Fd
Se
Py
Se
Bt
106µm
Py
Qz
Image width 2.1mm
Reflected Light
Potoroo 1 Chip A c

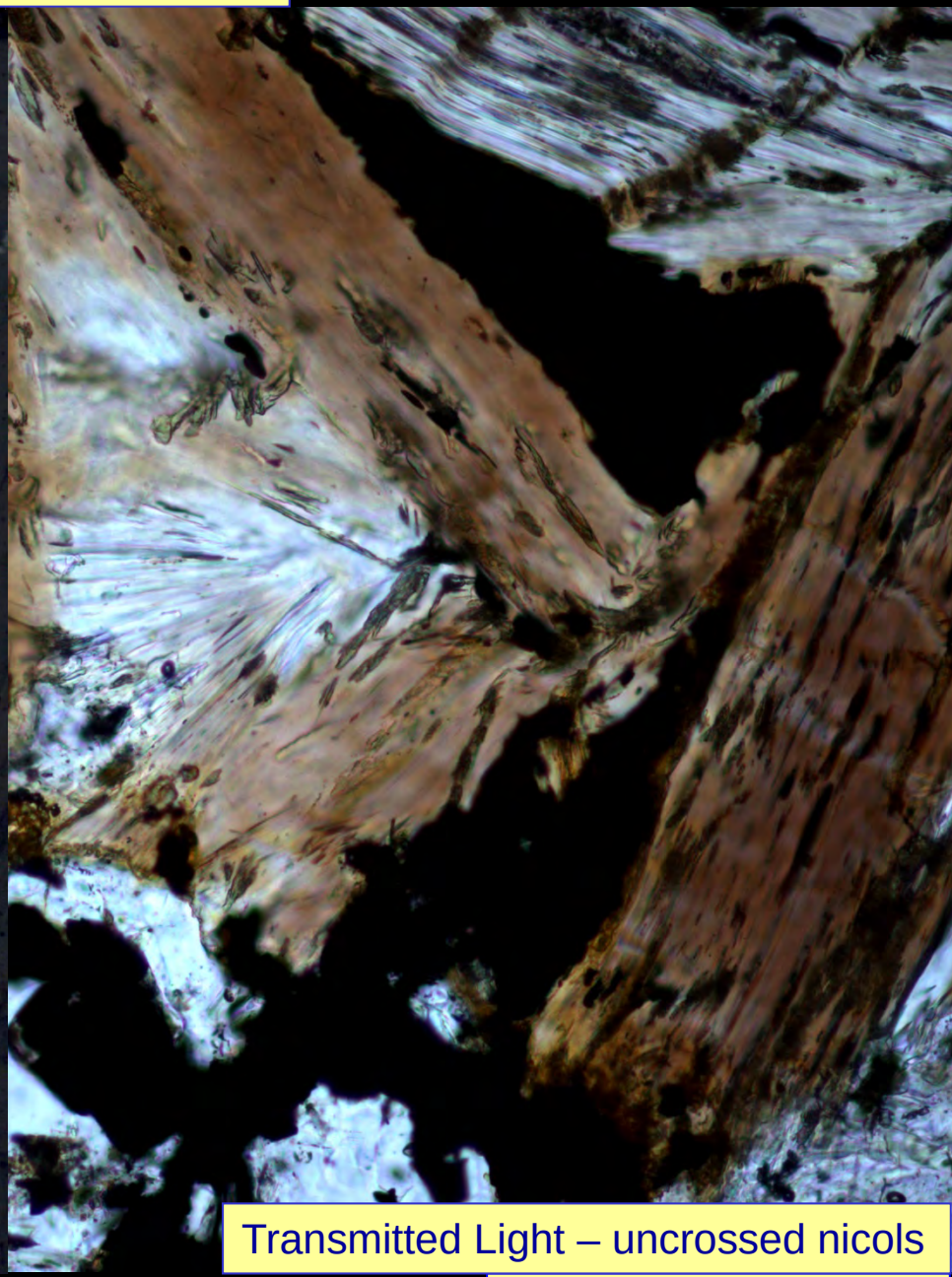

Crustiform pyrite coating void walls
Vd
Se
image e
Py
106µm
Vd
Vd
Bt
Qz
Se
Fd
Se
Image width 2.1mm
Reflected Light
Potoroo 1 Chip A d


Detail from previous image
Se
Py
Co
Bt
27µm
Vd
Py
Py
Vd
Py
Py
Qz
Image width 515µm
Reflected Light
Potoroo 1 Chip A e

Pyrite interstitial to biotite



Reflected Light – uncrossed nicols



Transmitted Light – uncrossed nicols

Image width 2 x 386µm

Potoroo 1 Chip A f/g

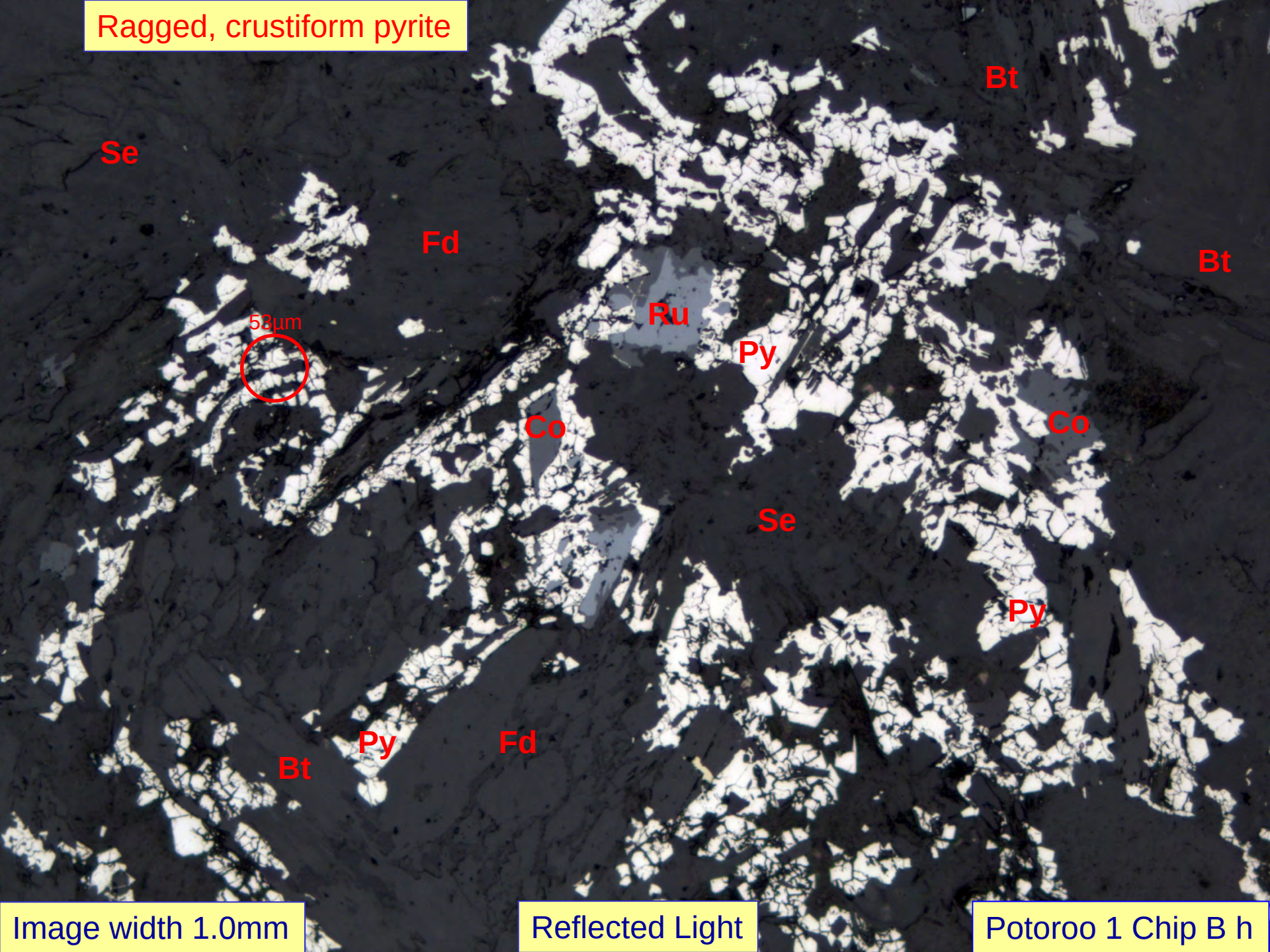


Image width 1.0mm

Reflected Light

Potoroo 1 Chip B h

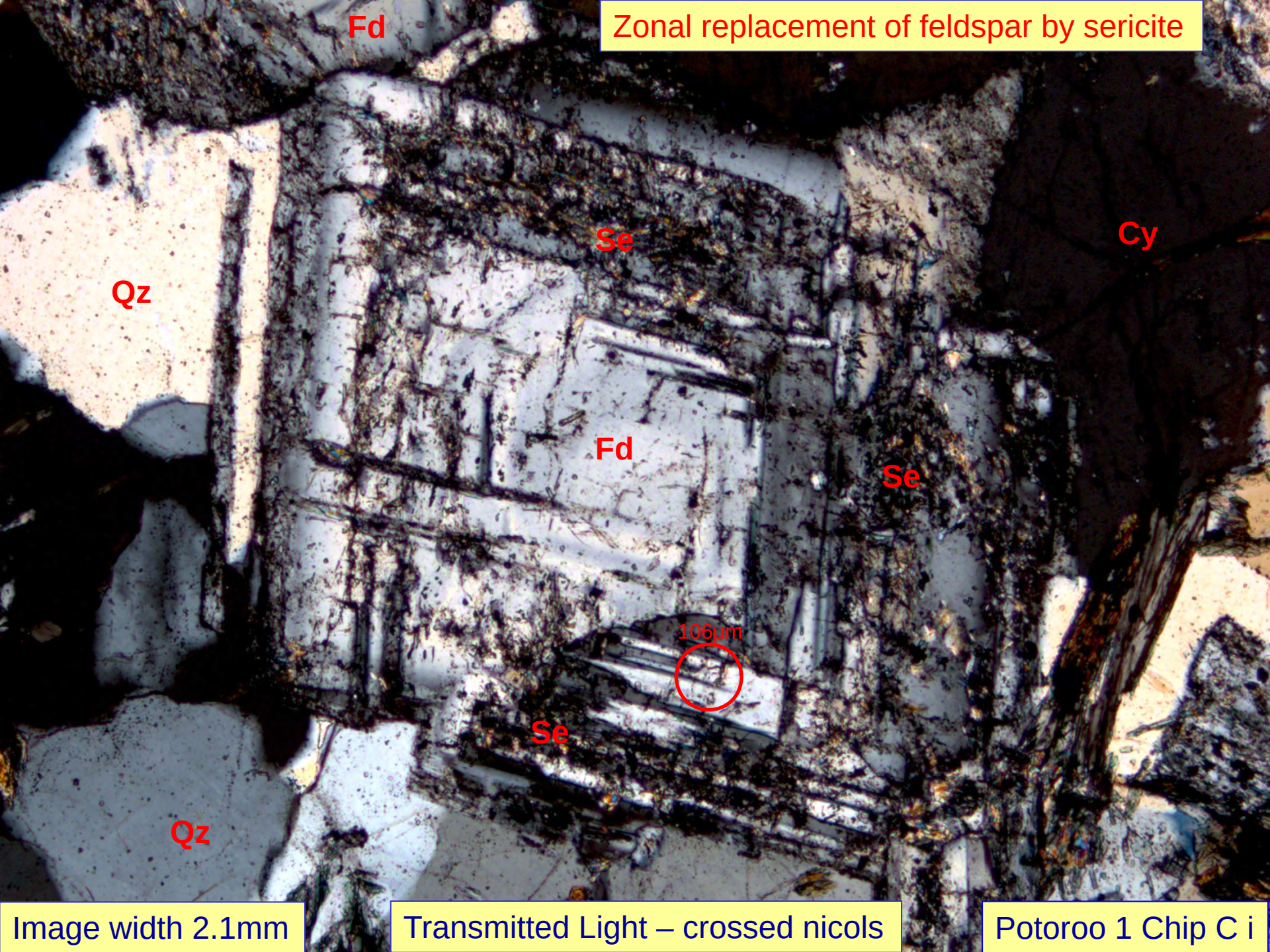
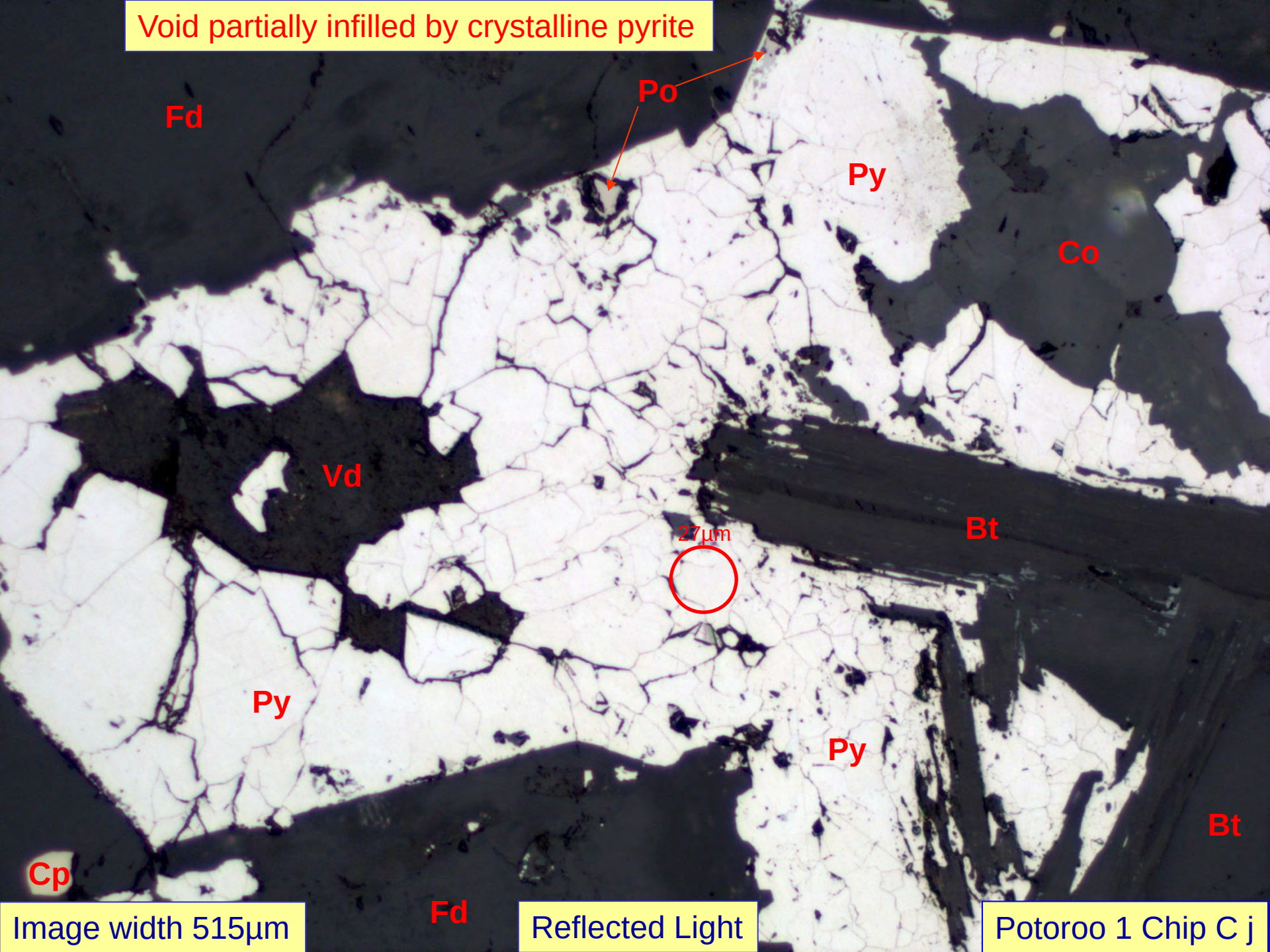
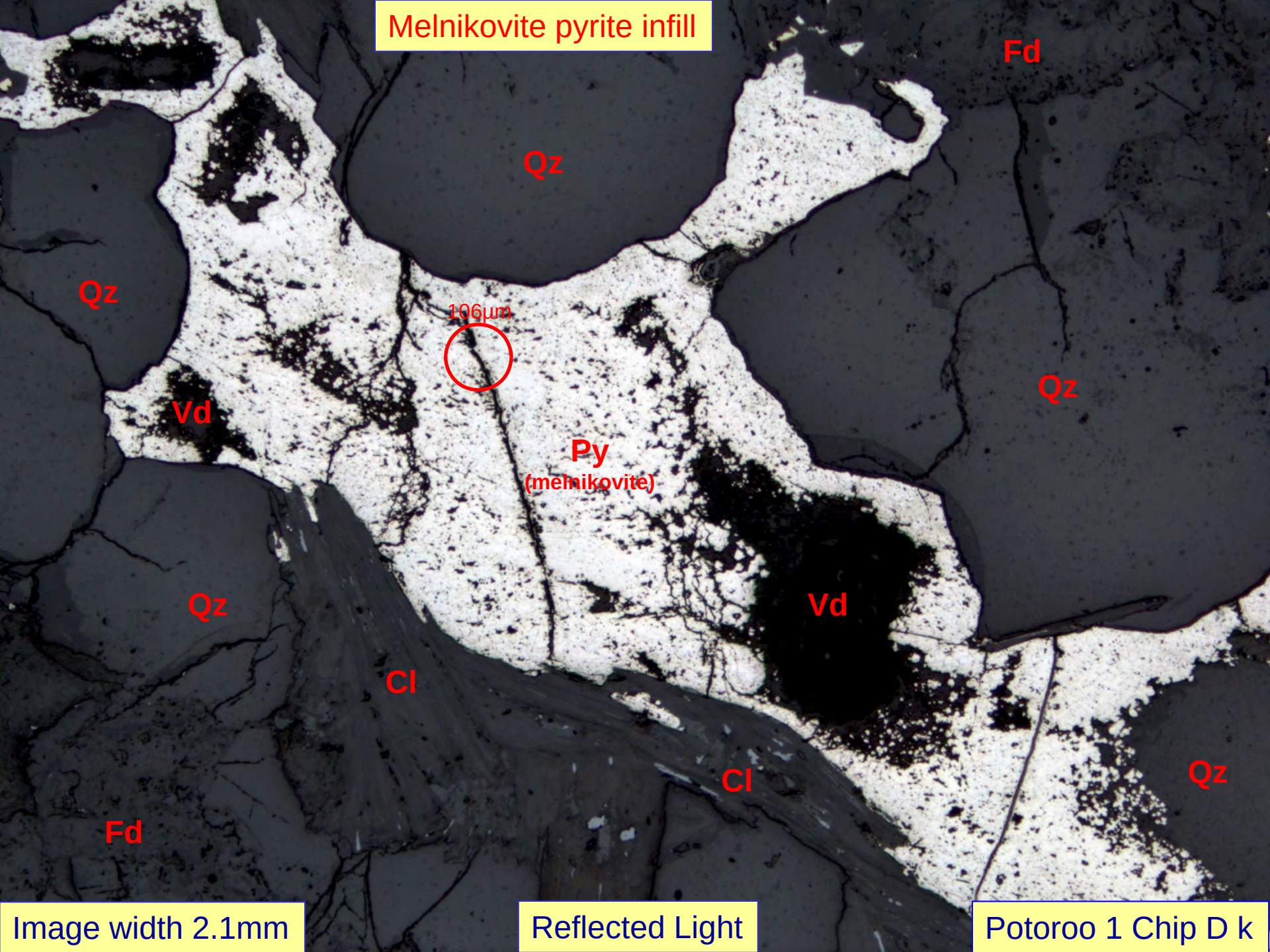


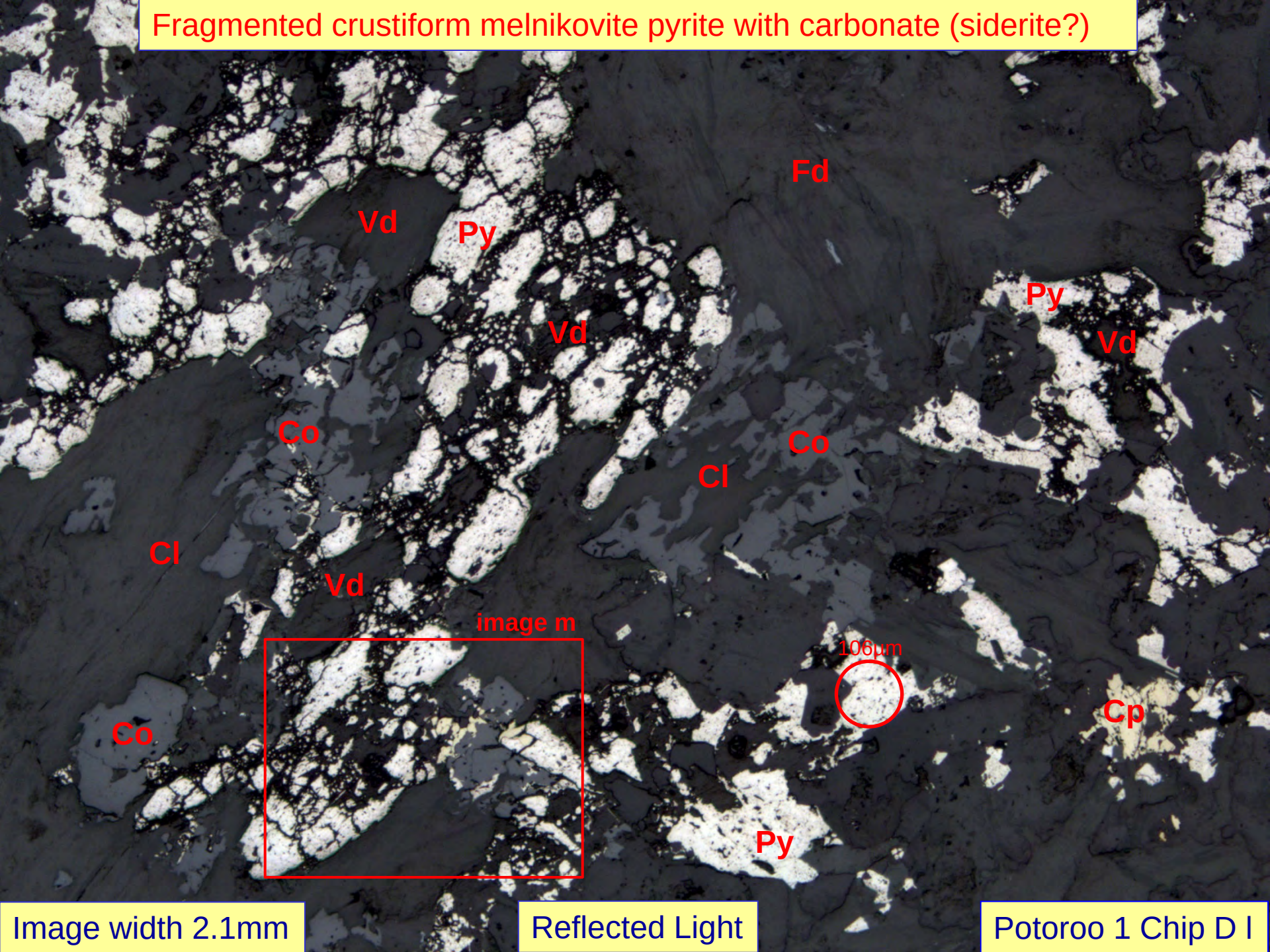
Image width 2.1mm

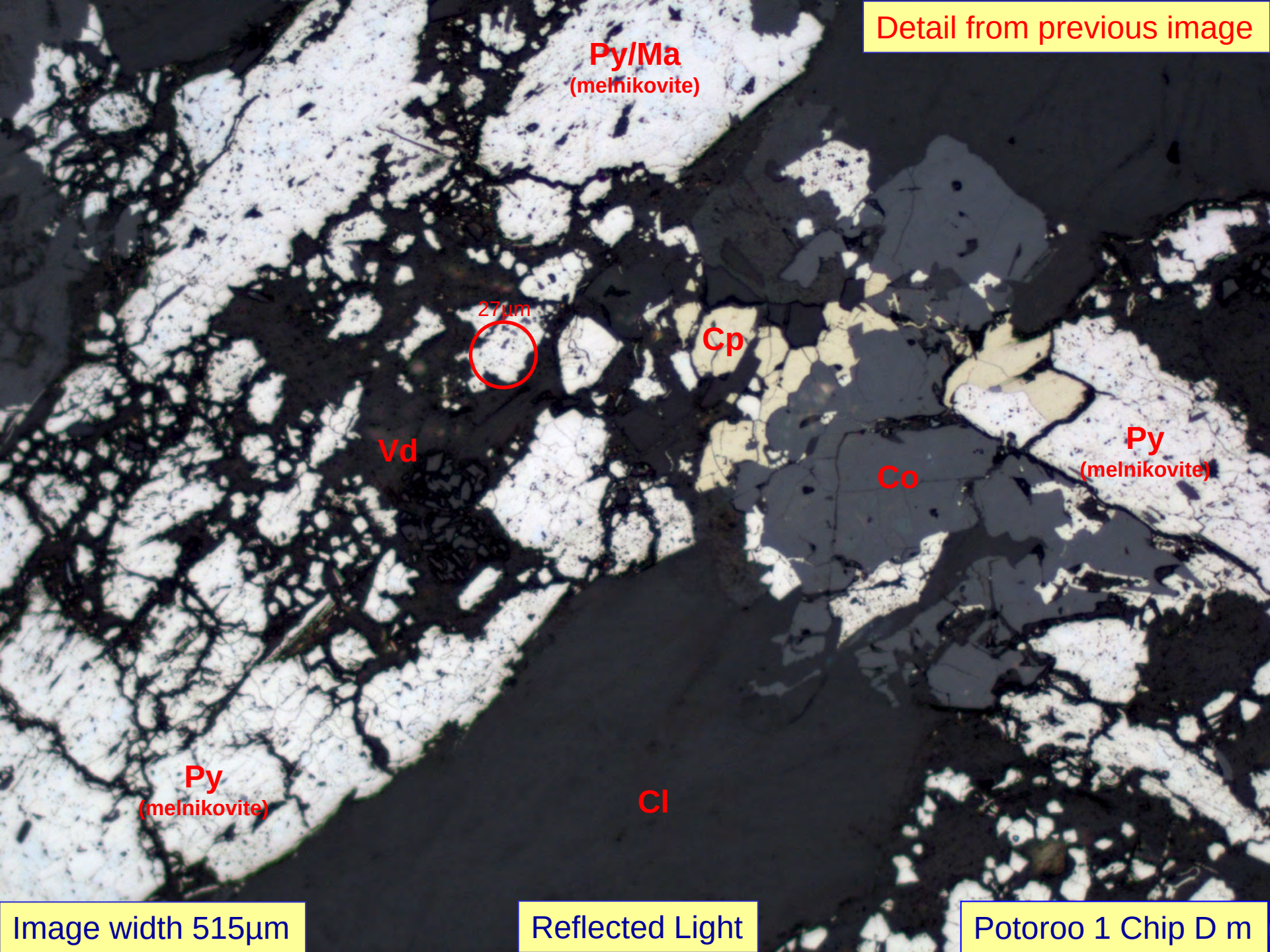
Transmitted Light – crossed nicols

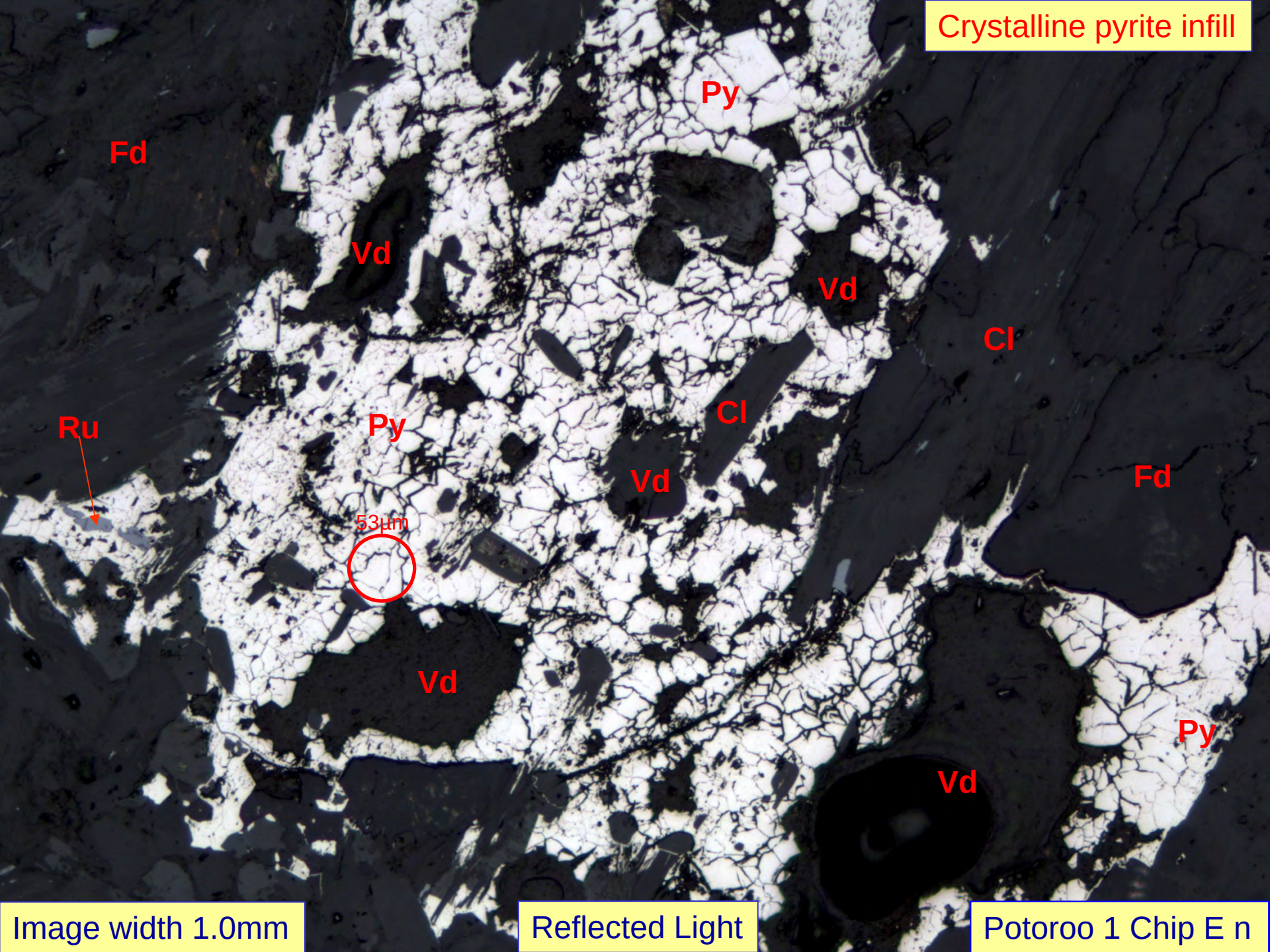
Potoroo 1 Chip C i

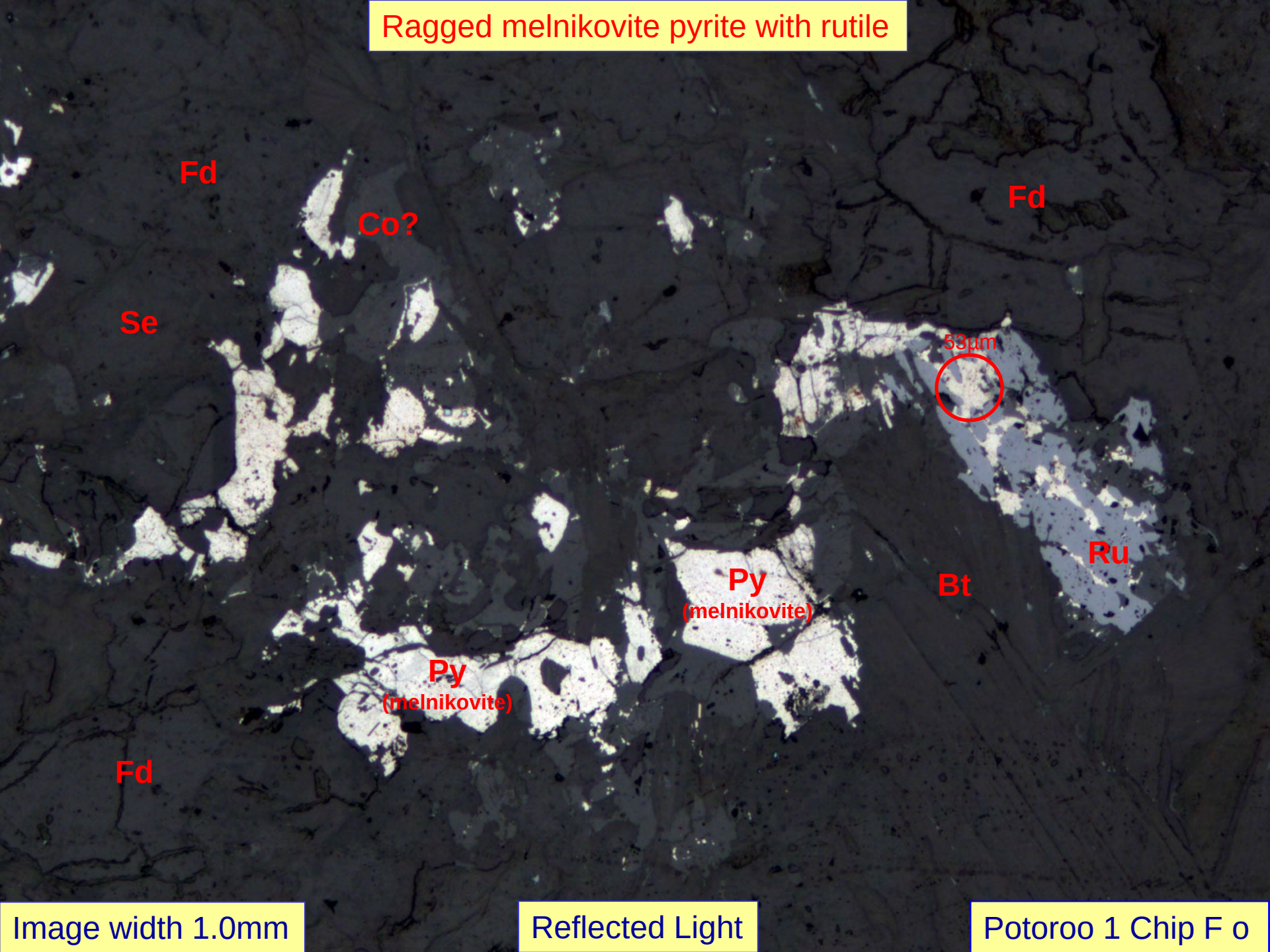

Void partially infilled by crystalline pyrite
Po
Fd
Py
Co
Vd
Bt
27µm
Py
Py
Bt
Cp
Fd
Image width 515µm
Reflected Light
Potoroo 1 Chip C j

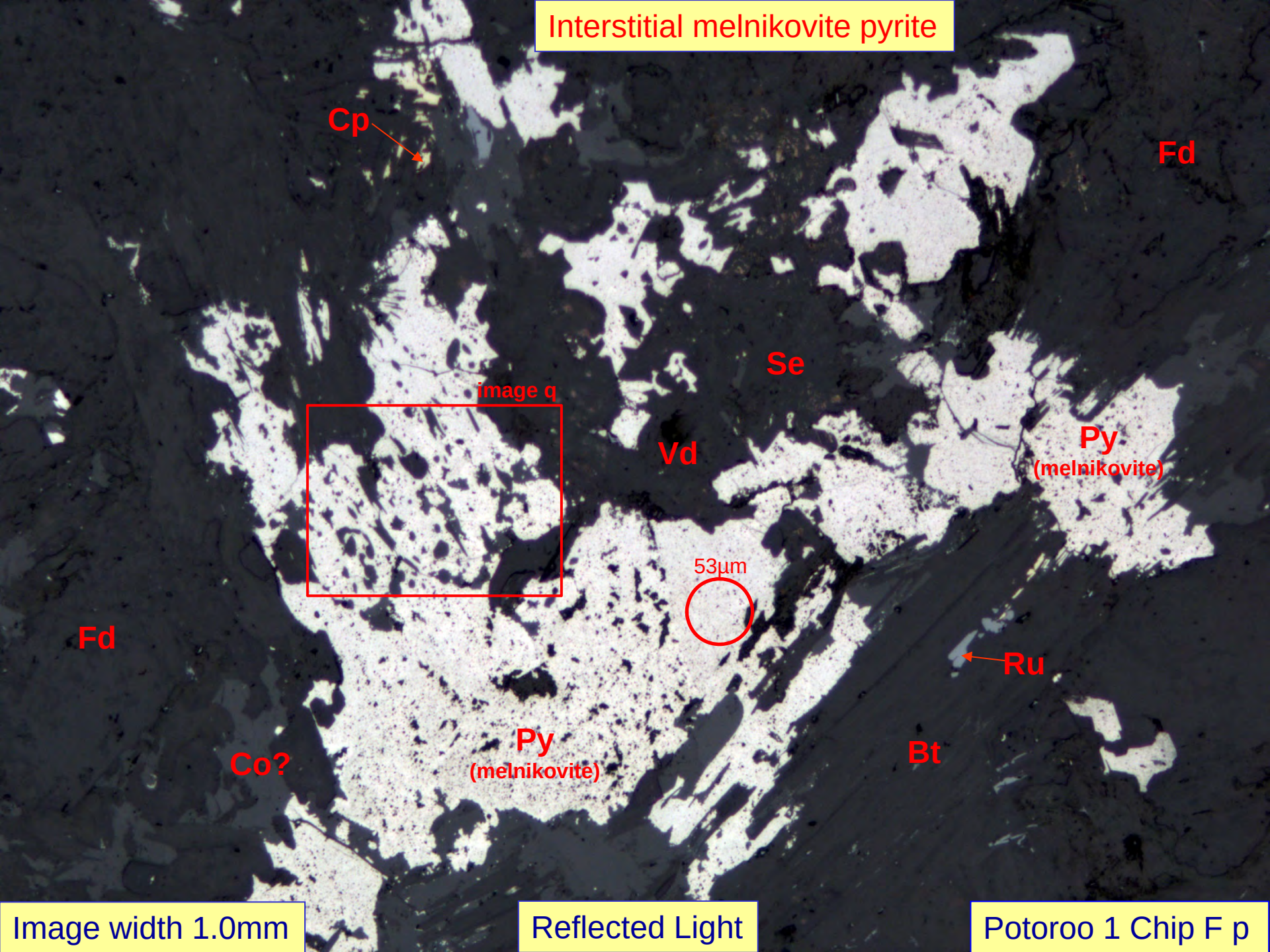

Melnikovite pyrite infill
Fd
Qz
Qz
106µm
Qz
Vd
Py
(melnikovite)
Qz
Vd
Cl
Cl
Qz
Fd
Image width 2.1mm
Reflected Light
Potoroo 1 Chip D k

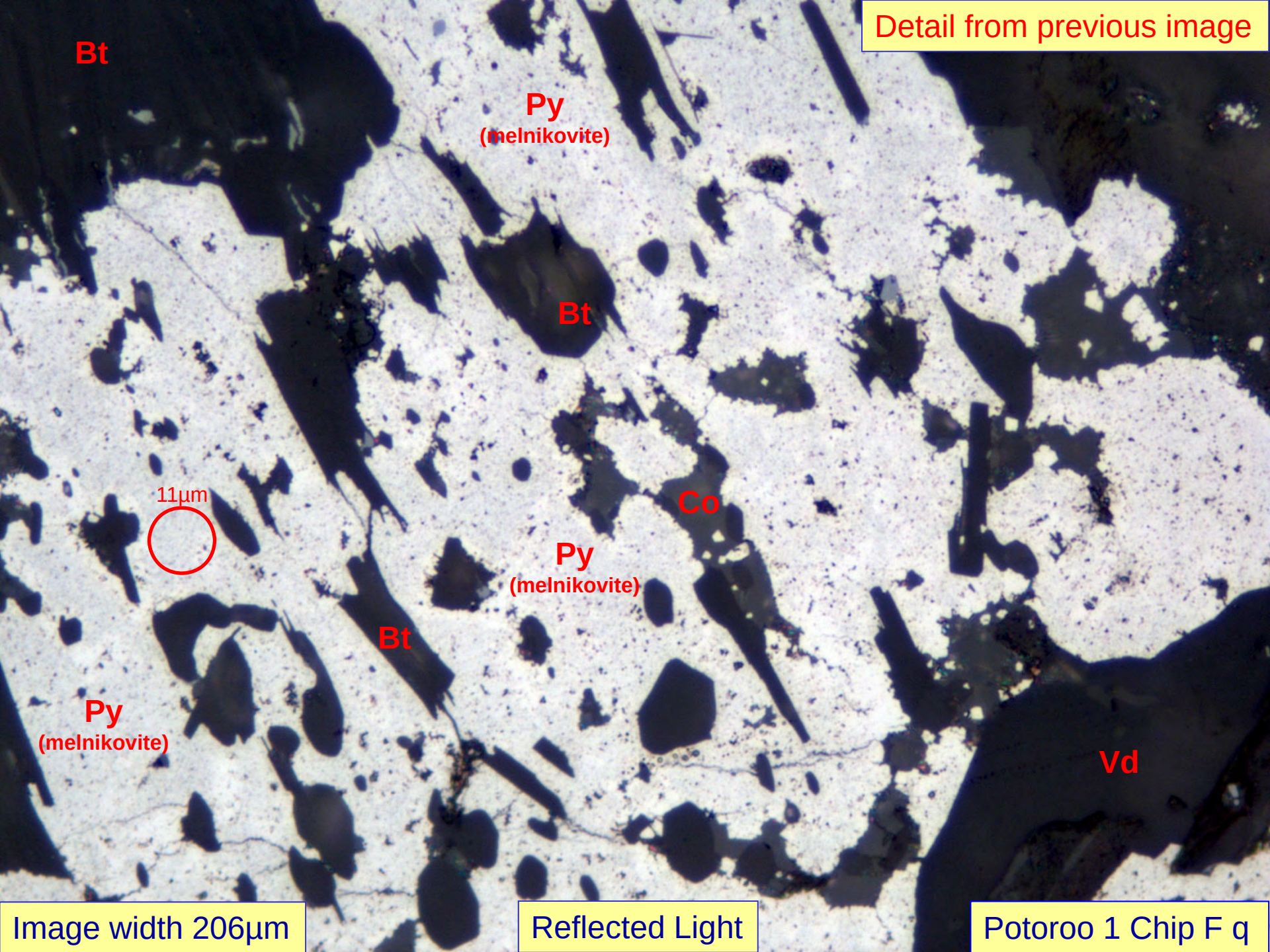

Fragmented crustiform melnikovite pyrite with carbonate (siderite?)
Fd
Vd
Py
Vd
Py
Vd
Co
Co
Cl
Cl
Vd
image m
106µm
Co
Cp
Py
Image width 2.1mm
Reflected Light
Potoroo 1 Chip D l

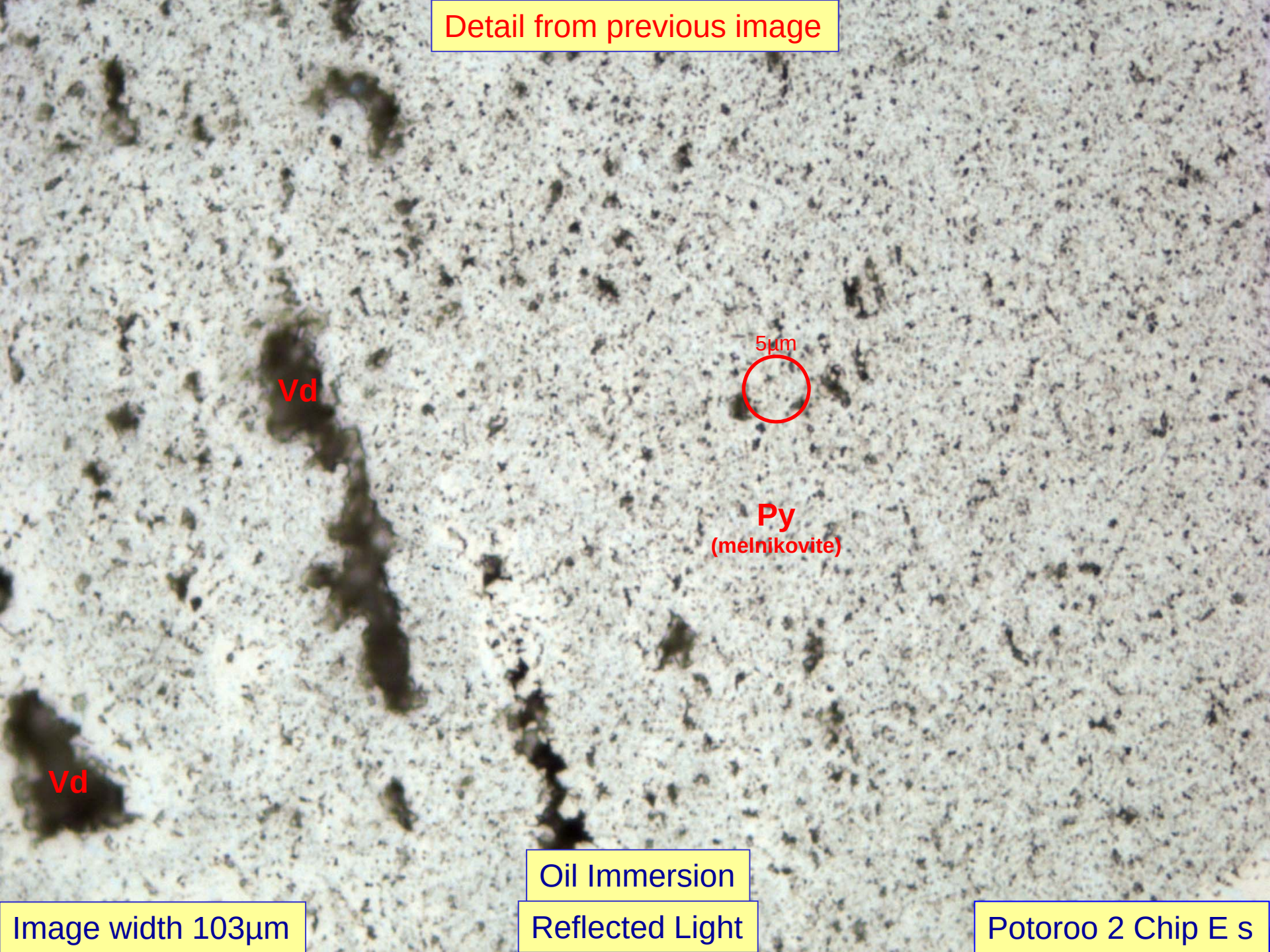

Detail from previous image
Py/Ma
(melnikovite)
27µm
Cp
Vd
Co
Py
(melnikovite)
Py
(melnikovite)
Cl
Image width 515µm
Reflected Light
Potoroo 1 Chip D m


Crystalline pyrite infill
Py
Fd
Vd
Vd
Cl
Ru
Py
Cl
Vd
Fd
53µm
Vd
Py
Vd
Image width 1.0mm
Reflected Light
Potoroo 1 Chip E n


Ragged melnikovite pyrite with rutile
Fd
Co?
Fd
Se
53µm
Ru
Py
(melnikovite)
Bt
Py
(melnikovite)
Fd
Image width 1.0mm
Reflected Light
Potoroo 1 Chip F o


Interstitial melnikovite pyrite
Cp
Fd
Se
image q
Vd
Py
(melnikovite)
53µm
Fd
Ru
Py
(melnikovite)
Co?
Bt
Image width 1.0mm
Reflected Light
Potoroo 1 Chip F p


Detail from previous image
Bt
Py
(melnikovite)
Bt
11µm
Co
Py
(melnikovite)
Bt
Py
(melnikovite)
Vd
Image width 206µm
Reflected Light
Potoroo 1 Chip F q


Detail from previous image
5µm
Vd
Py
(melnikovite)
Vd
Oil Immersion
Image width 103µm
Reflected Light
Potoroo 2 Chip E s

Polished Block – Mounted Chips

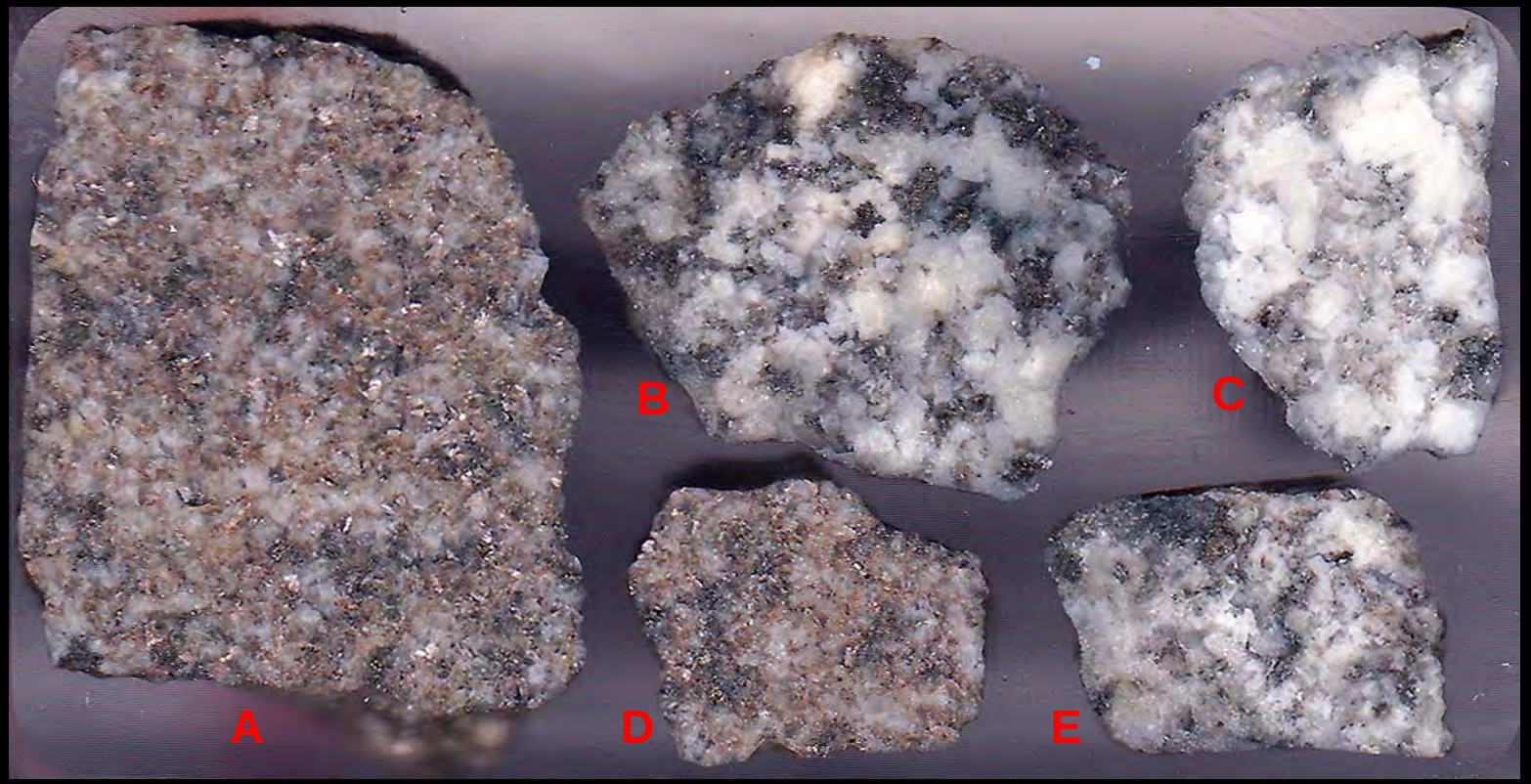
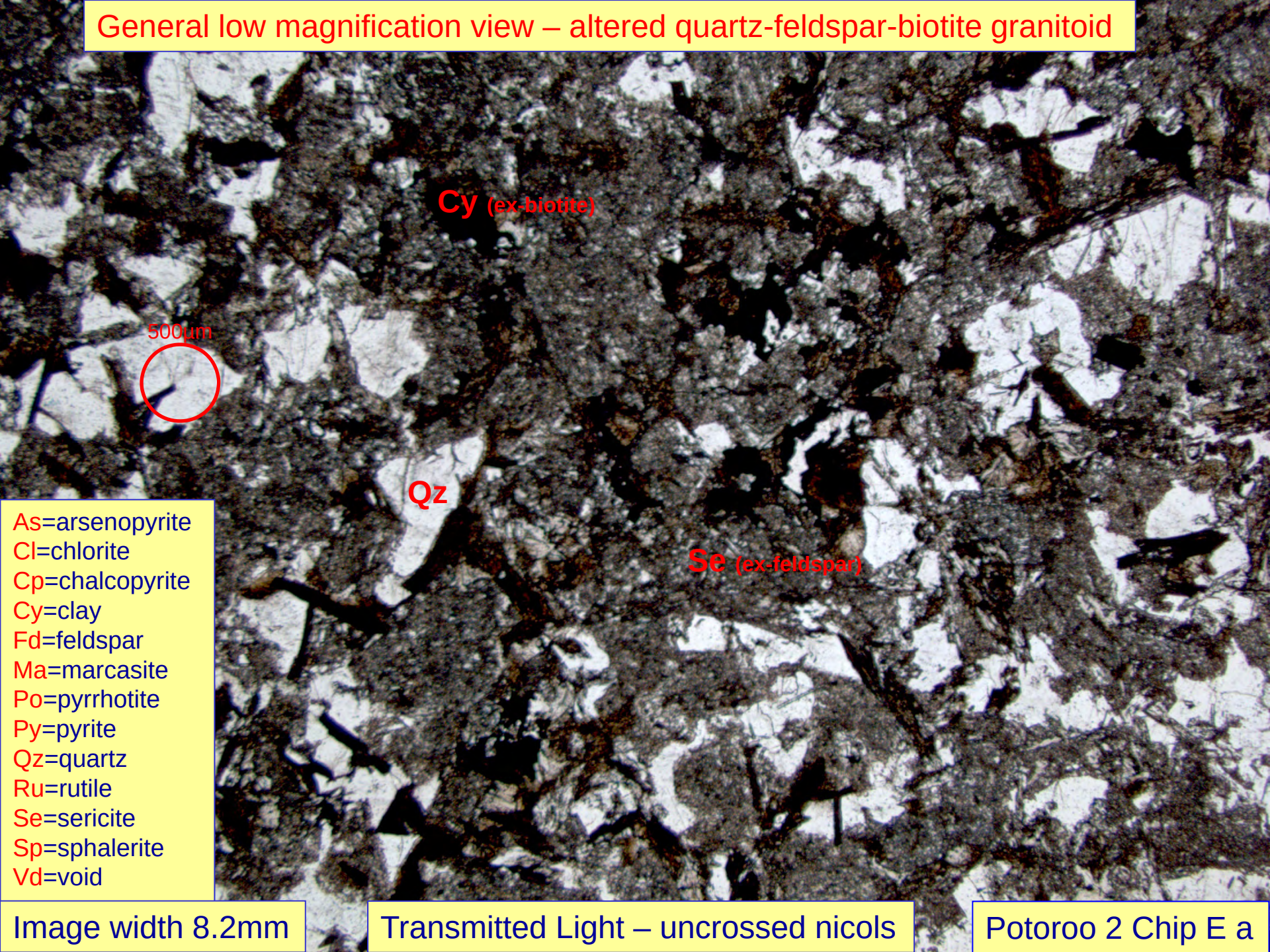


Image width 51mm (4X)

Optical scan (wet)

Potoroo 2 Block

General low magnification view – altered quartz-feldspar-biotite granitoid

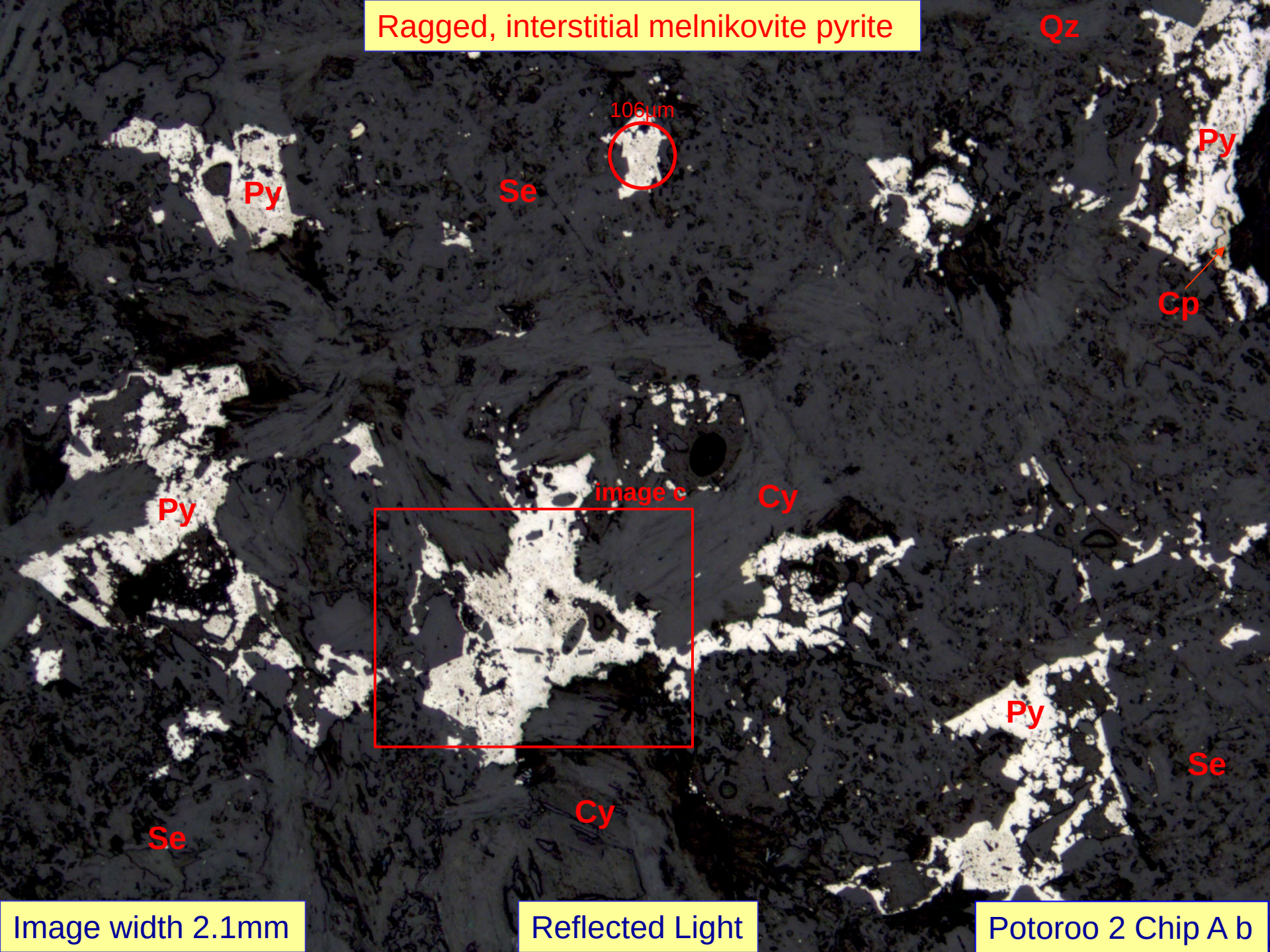


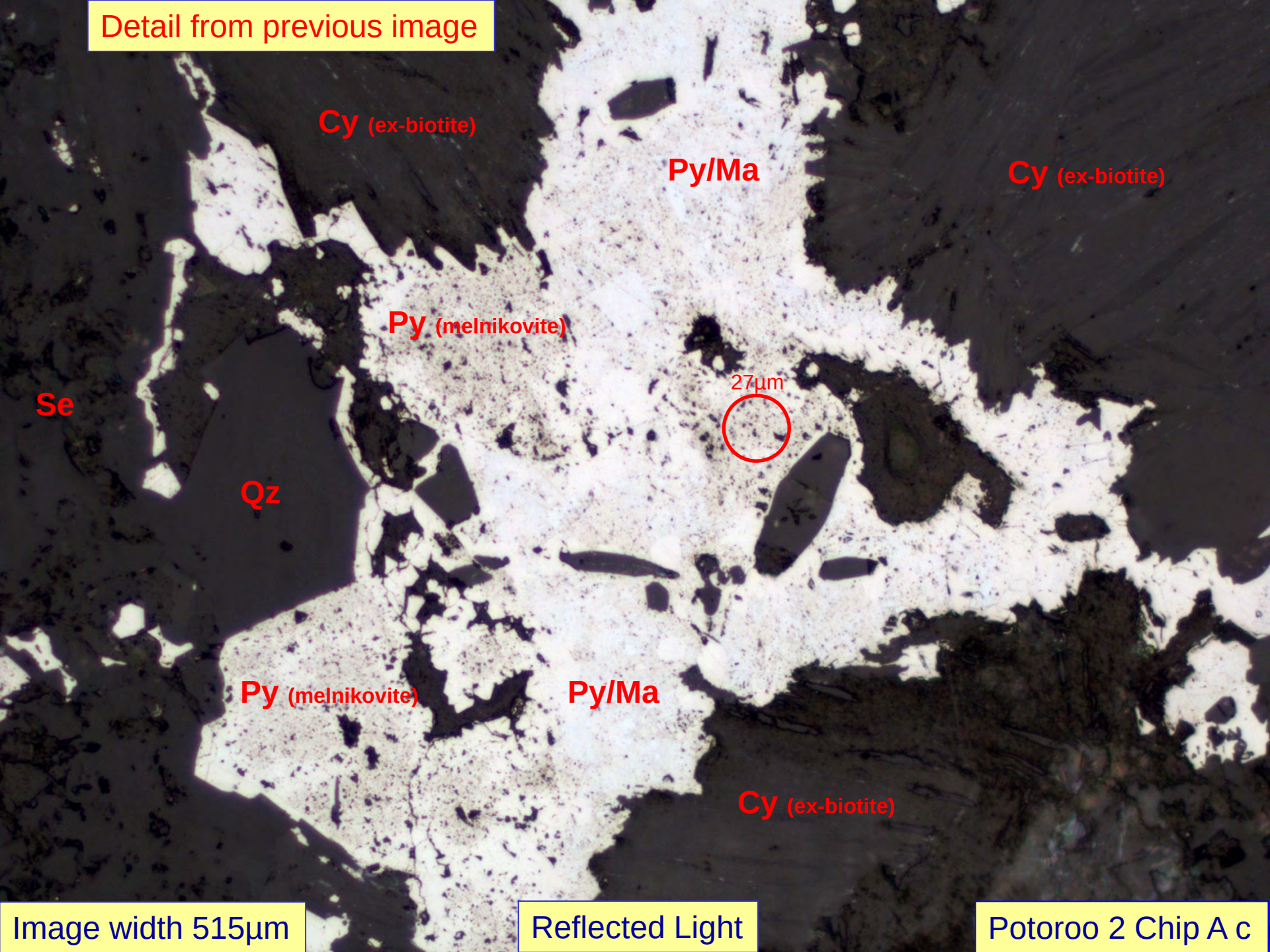
As=arsenopyrite
Cl=chlorite
Cp=chalcopyrite
Cy=clay
Fd=feldspar
Ma=marcasite
Po=pyrrhotite
Py=pyrite
Qz=quartz
Ru=rutile
Se=sericite
Sp=sphalerite
Vd=void

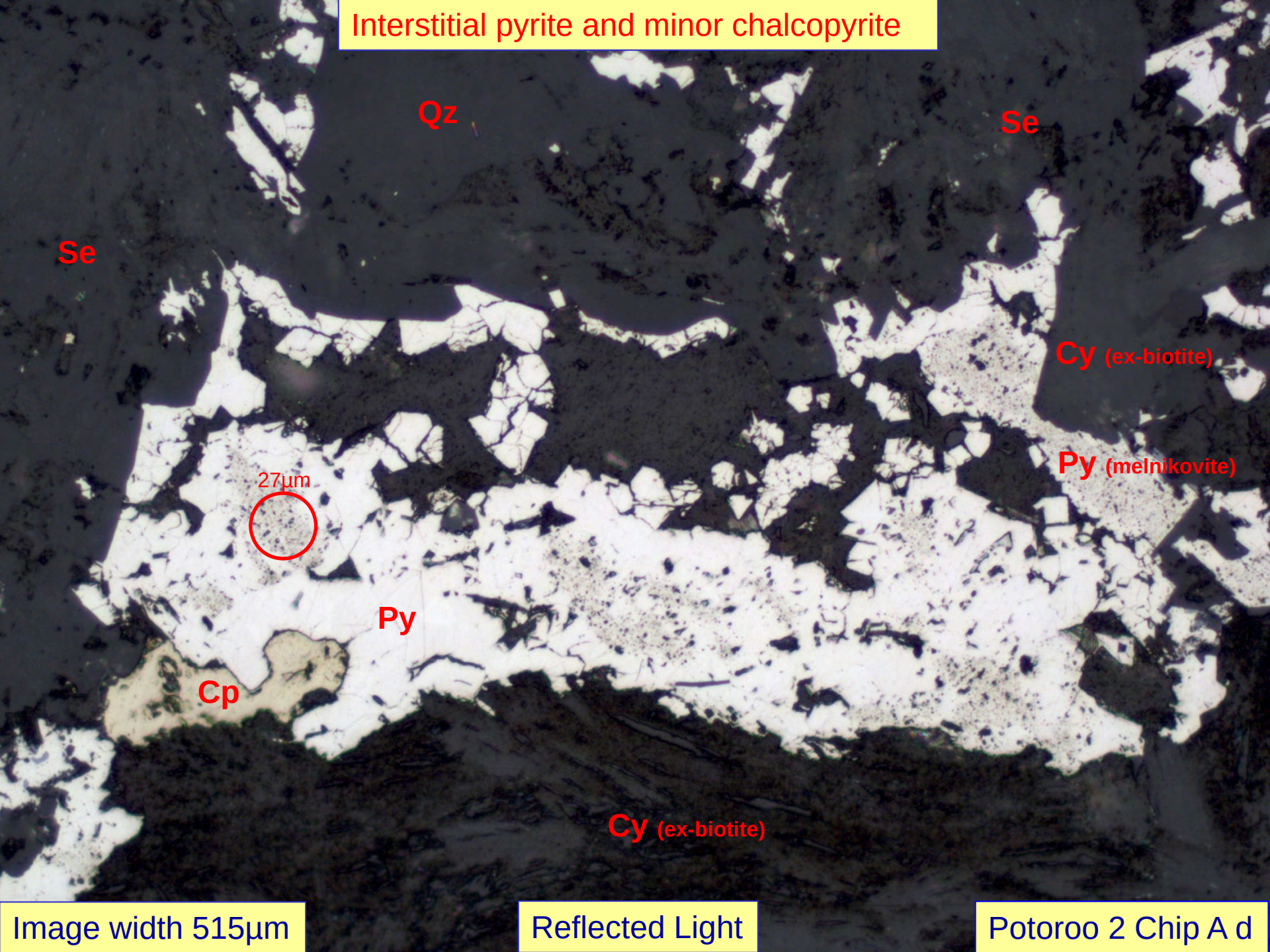
Image width 8.2mm

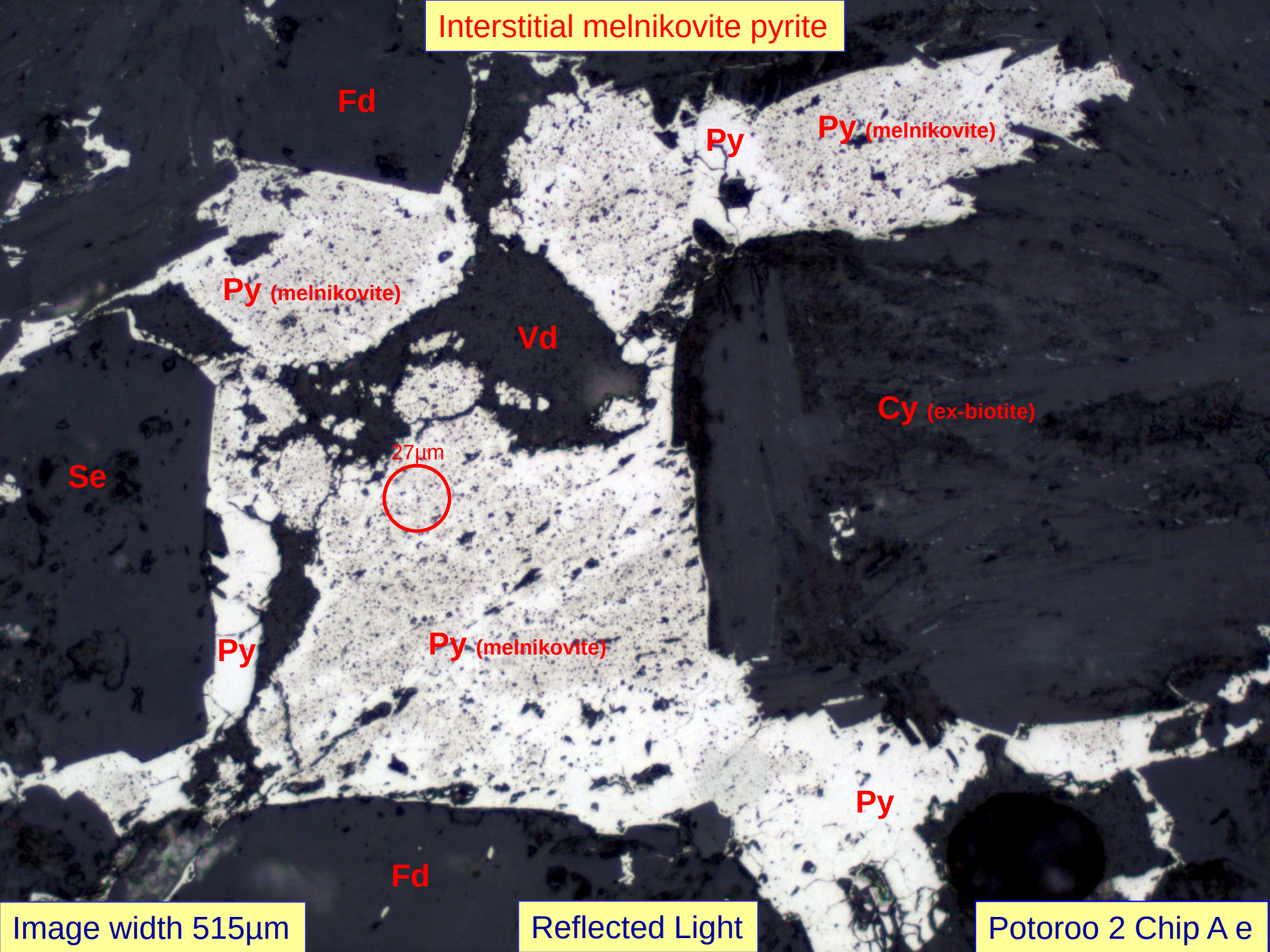
Transmitted Light – uncrossed nicols

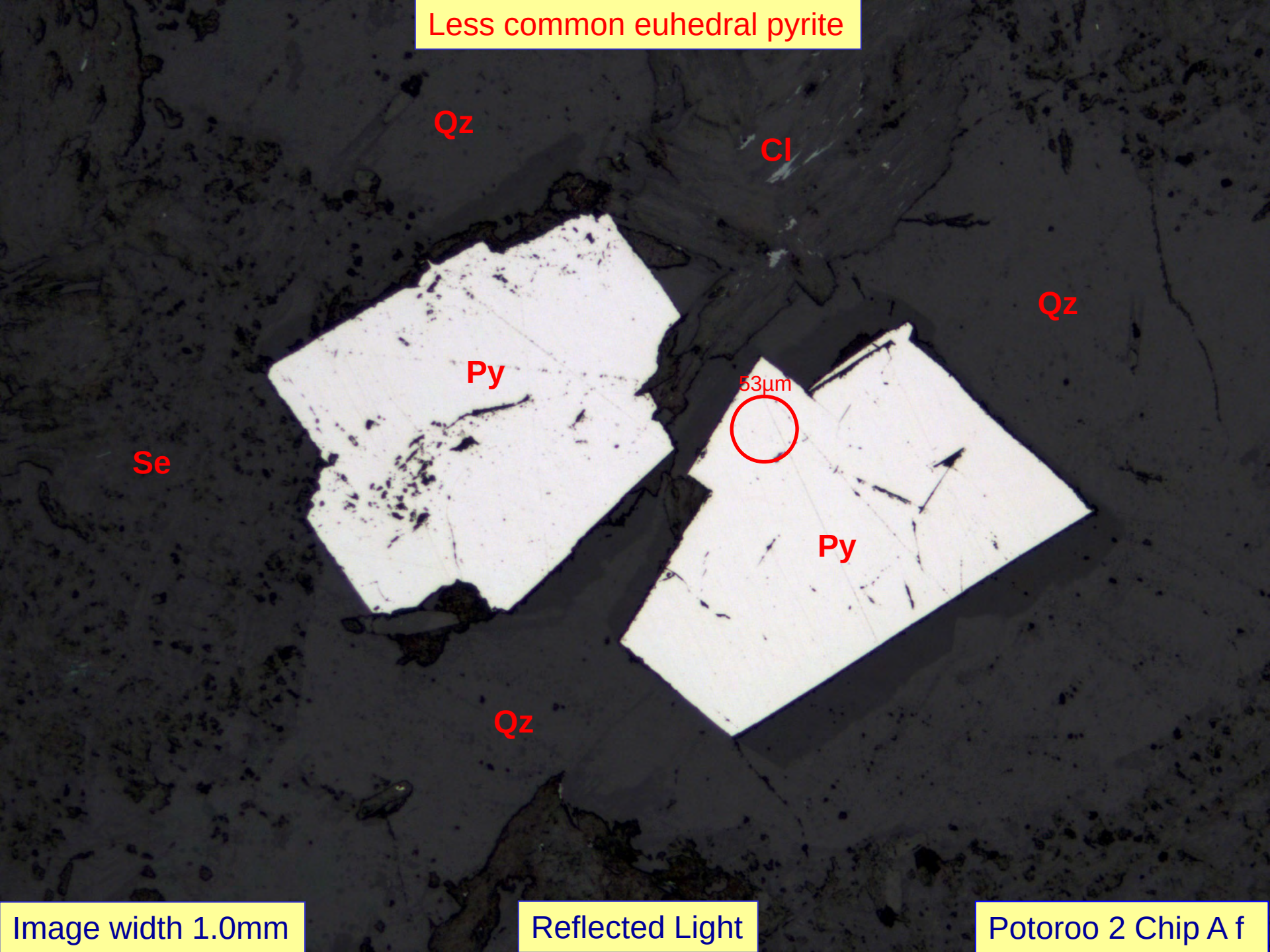
Potoroo 2 Chip E a

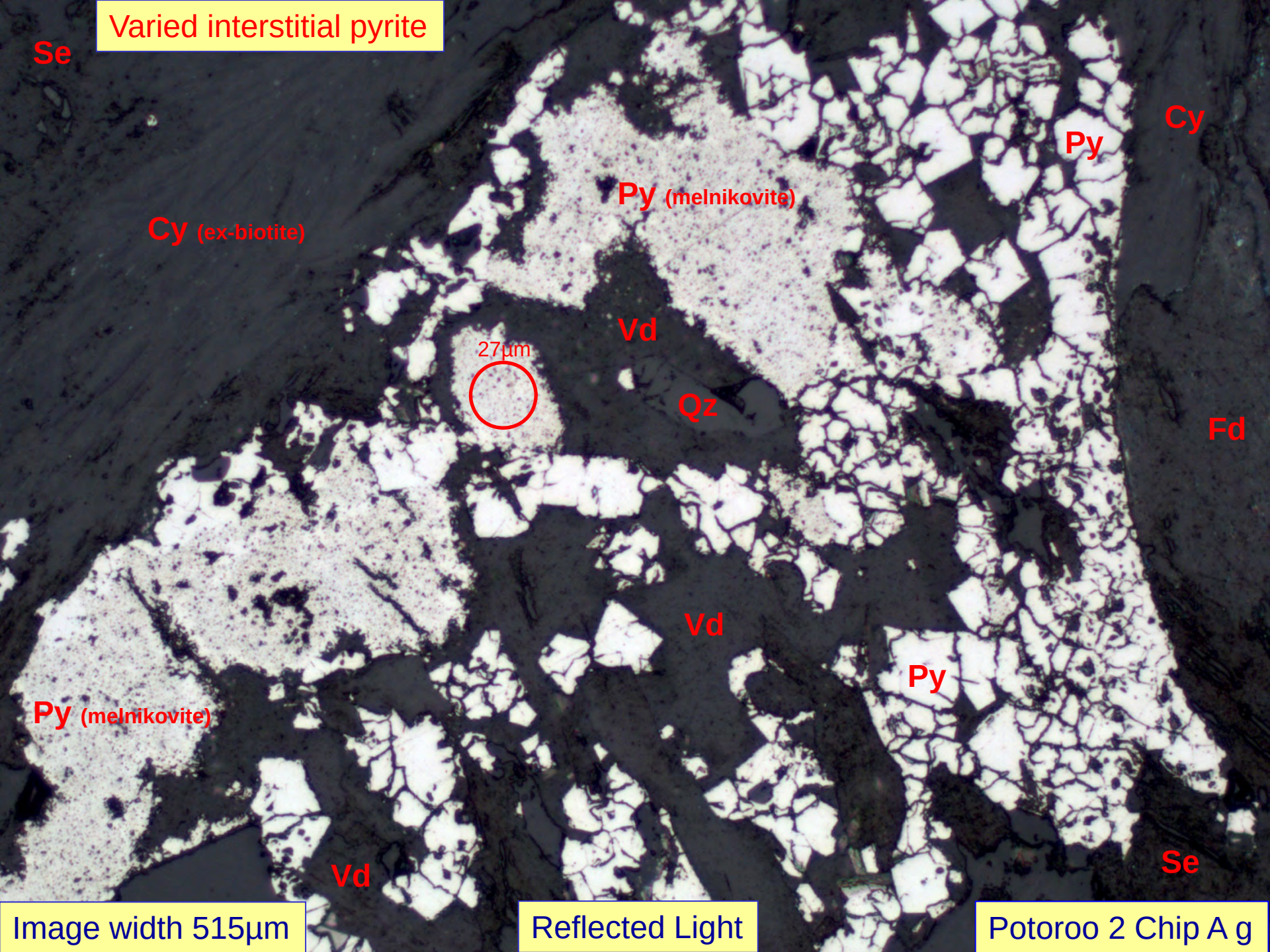

Ragged, interstitial melnikovite pyrite
Qz
106µm
Py
Se
Py
Cp
Py
image c
Cy
Py
Py
Se
Cy
Se
Image width 2.1mm
Reflected Light
Potoroo 2 Chip A b

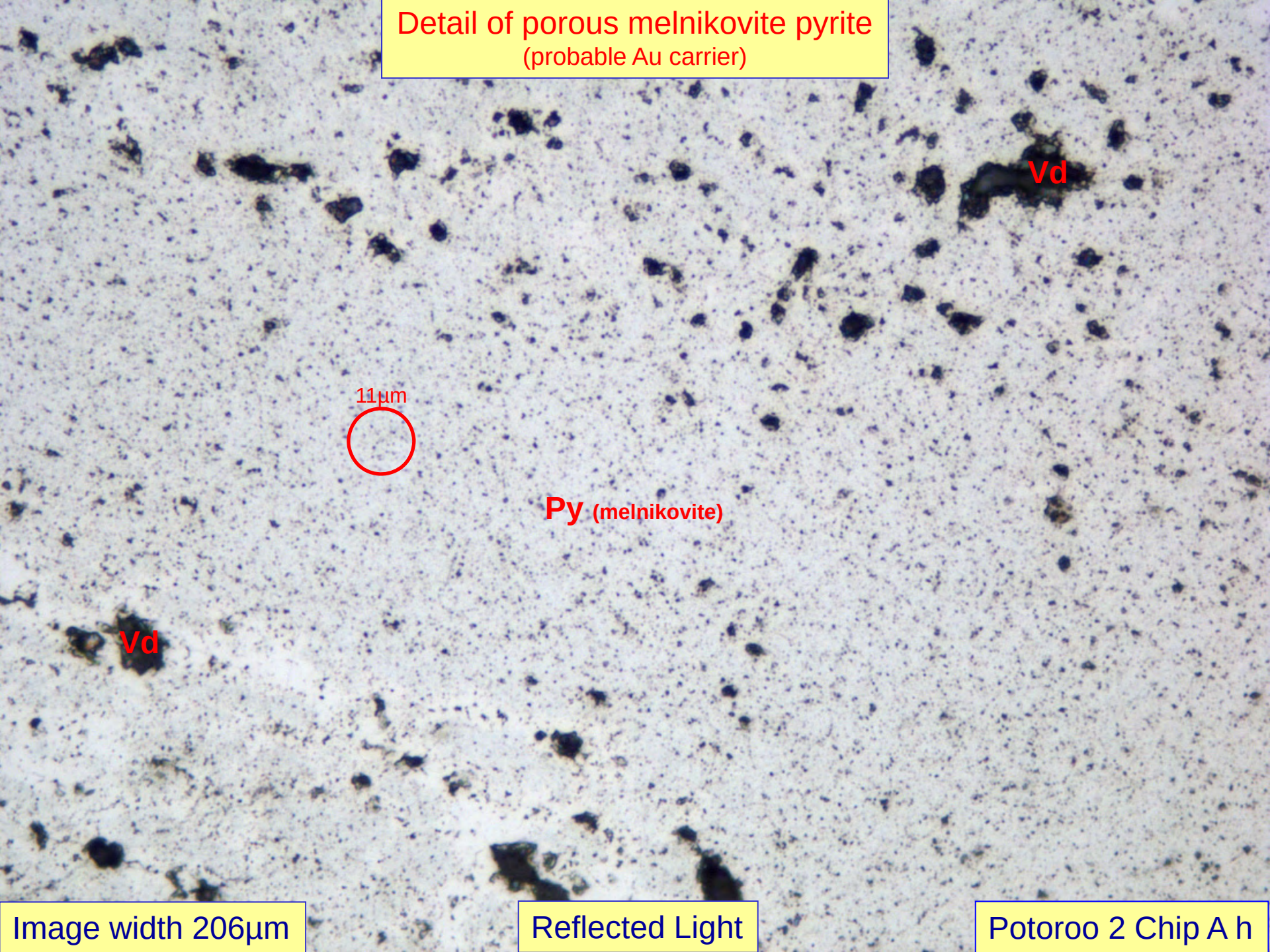

Detail from previous image
Cy (ex-biotite)
Py/Ma
Cy (ex-biotite)
Py (melnikovite)
27µm
Se
Qz
Py (melnikovite)
Py/Ma
Cy (ex-biotite)
Image width 515µm
Reflected Light
Potoroo 2 Chip A c

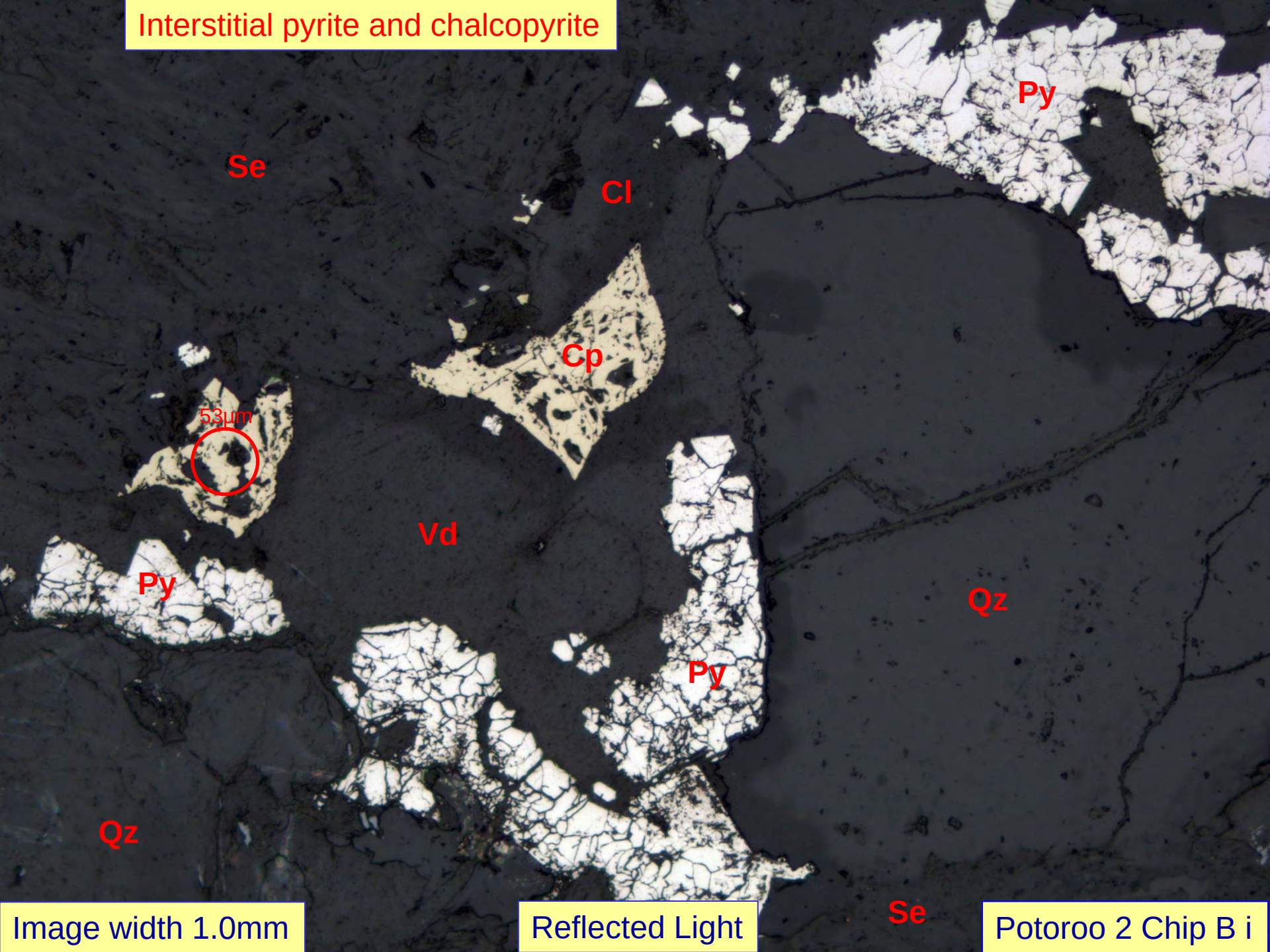

Interstitial pyrite and minor chalcopyrite
Qz
Se
Se
Cy (ex-biotite)
Py (melnikovite)
27µm
Py
Cp
Cy (ex-biotite)
Image width 515µm
Reflected Light
Potoroo 2 Chip A d

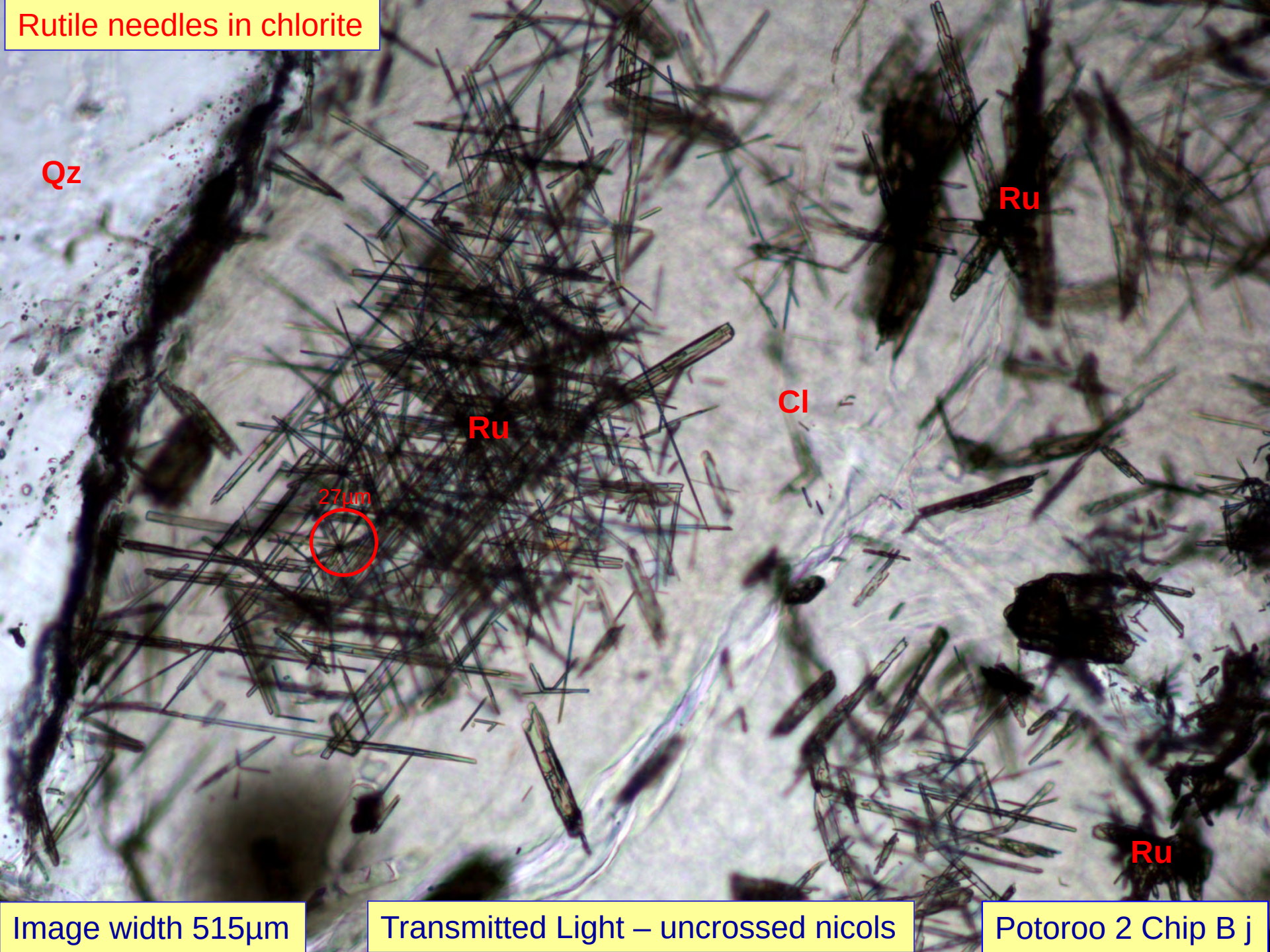

Interstitial melnikovite pyrite
Fd
Py
Py (melnikovite)
Py (melnikovite)
Vd
Cy (ex-biotite)
27µm
Se
Py
Py (melnikovite)
Py
Fd
Image width 515µm
Reflected Light
Potoroo 2 Chip A e

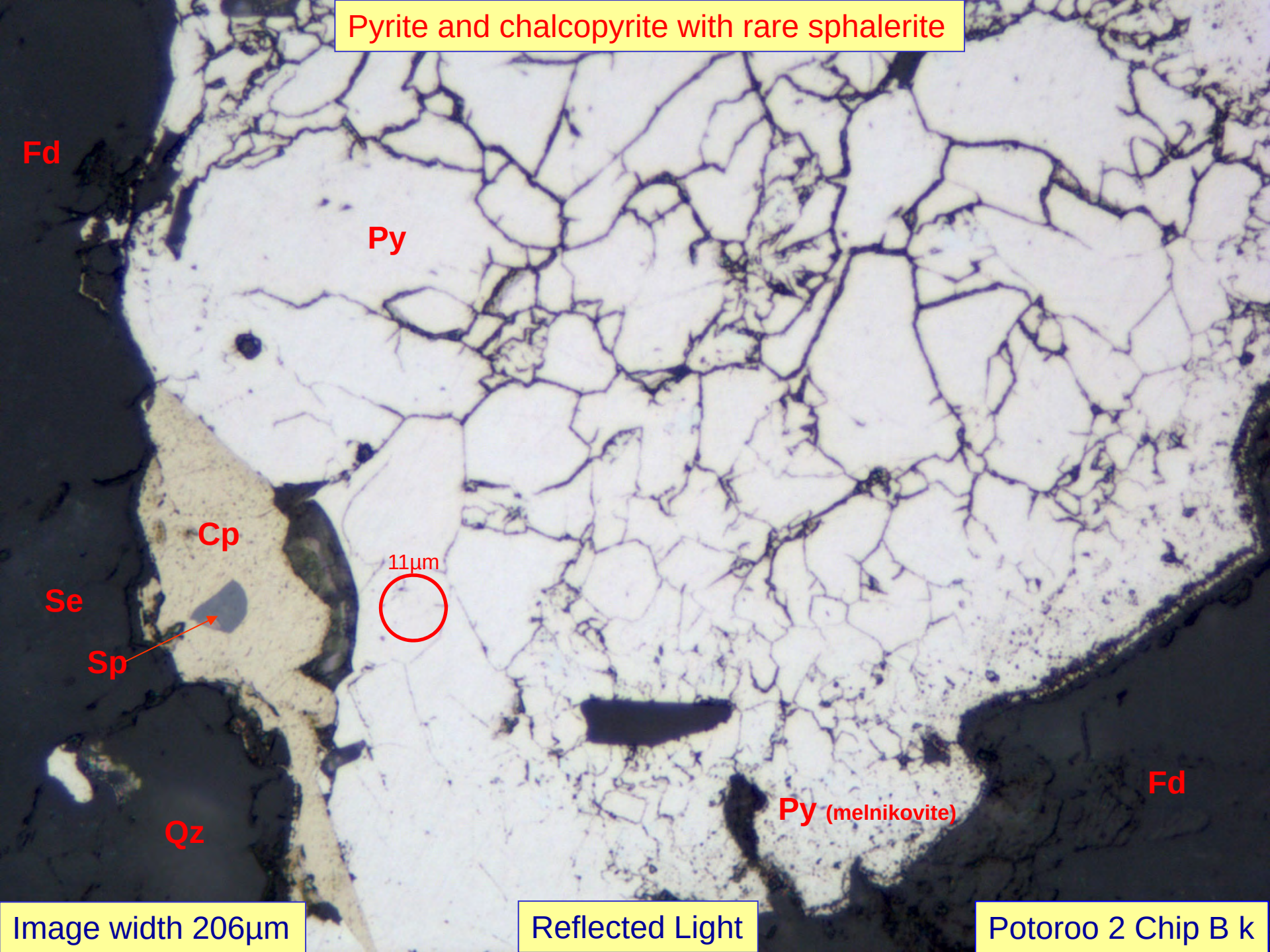

Less common euhedral pyrite
Qz
Cl
Qz
Py
53µm
Se
Py
Qz
Image width 1.0mm
Reflected Light
Potoroo 2 Chip A f

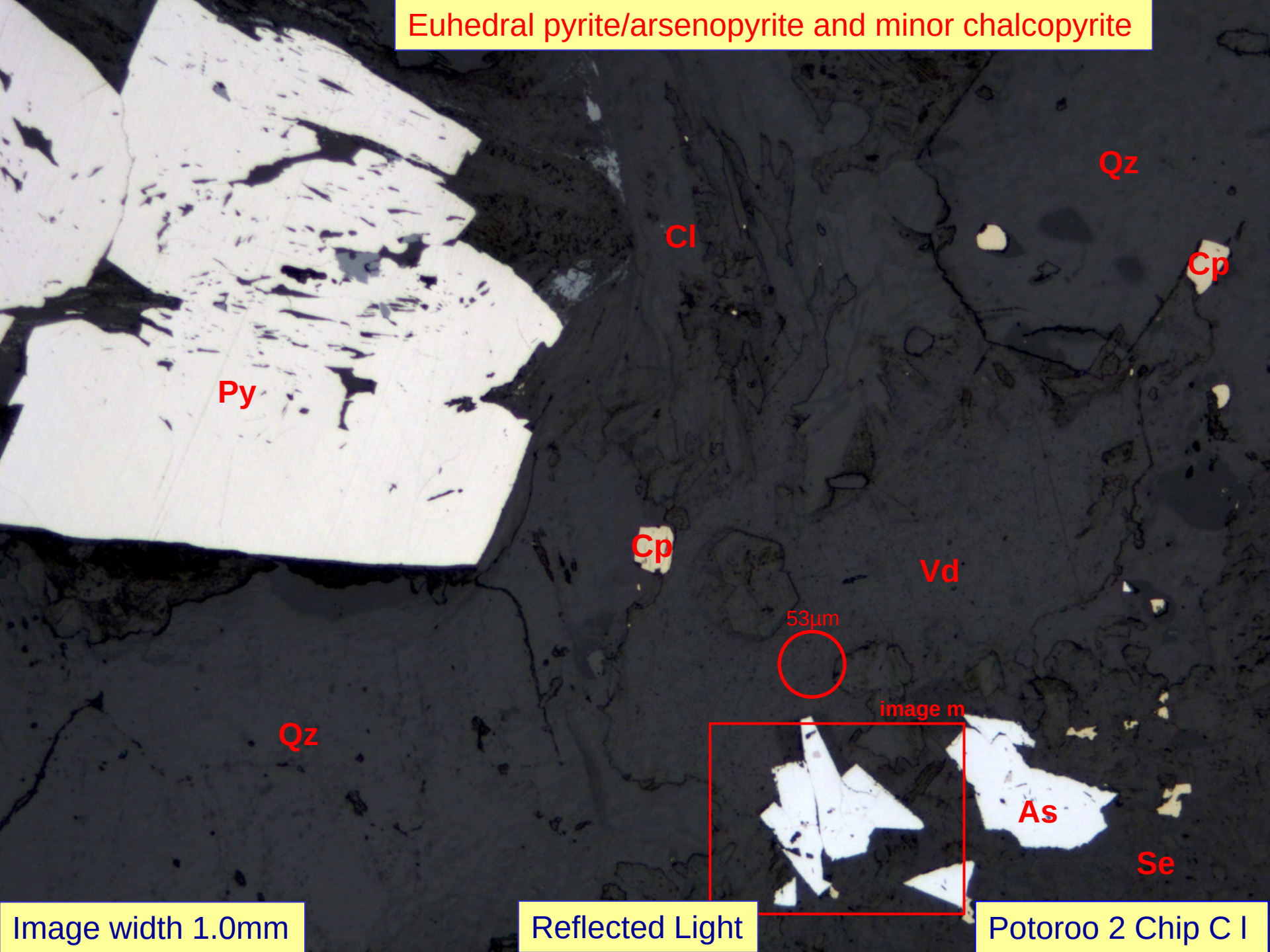

Varied interstitial pyrite
Se
Cy
Py
Py (melnikovite)
Cy (ex-biotite)
Vd
27µm
Qz
Fd
Vd
Py
Py (melnikovite)
Vd
Se
Image width 515µm
Reflected Light
Potoroo 2 Chip A g

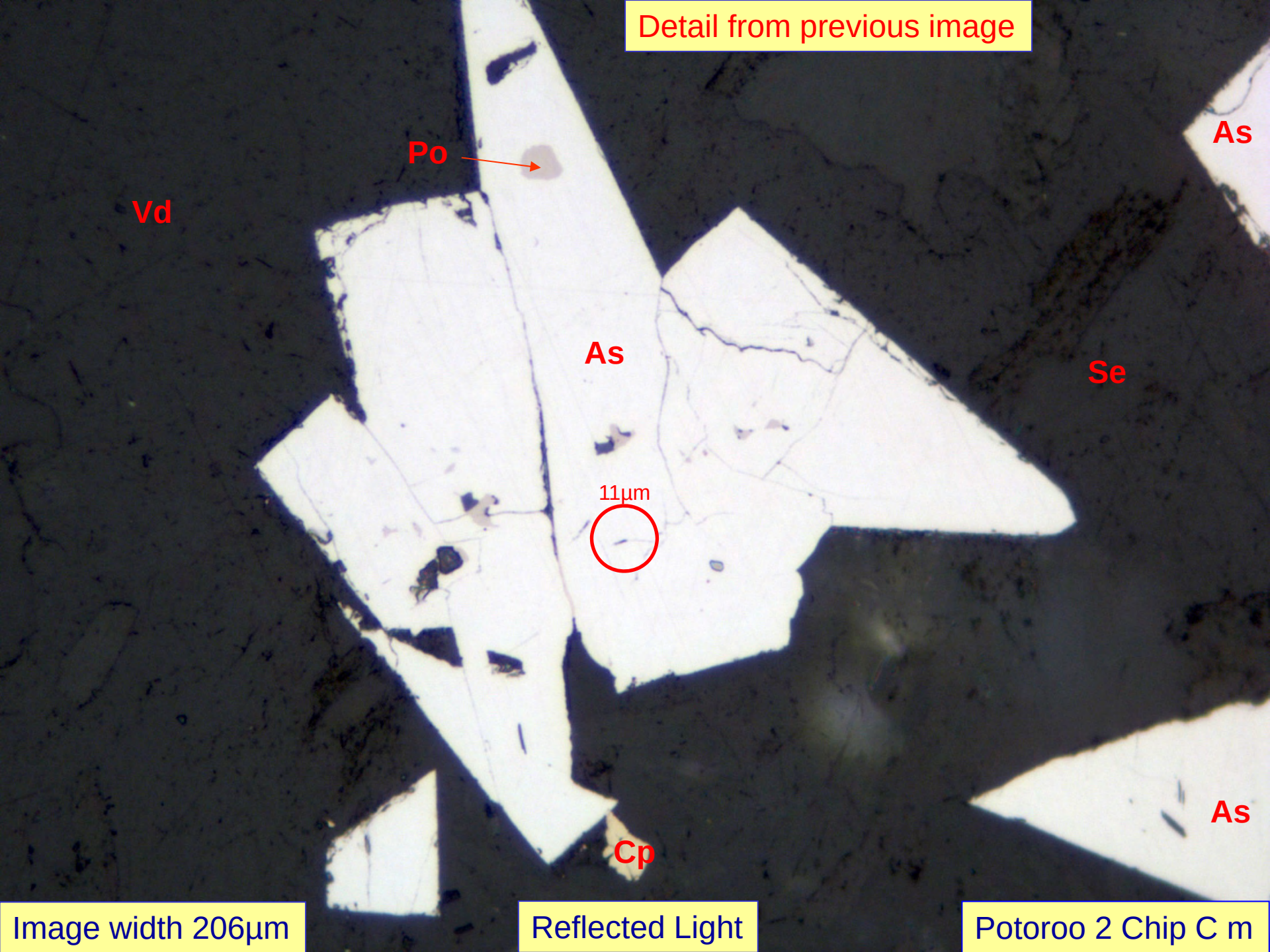

Detail of porous melnikovite pyrite
(probable Au carrier)
Vd
11µm
Py (melnikovite)
Vd
Image width 206µm
Reflected Light
Potoroo 2 Chip A h

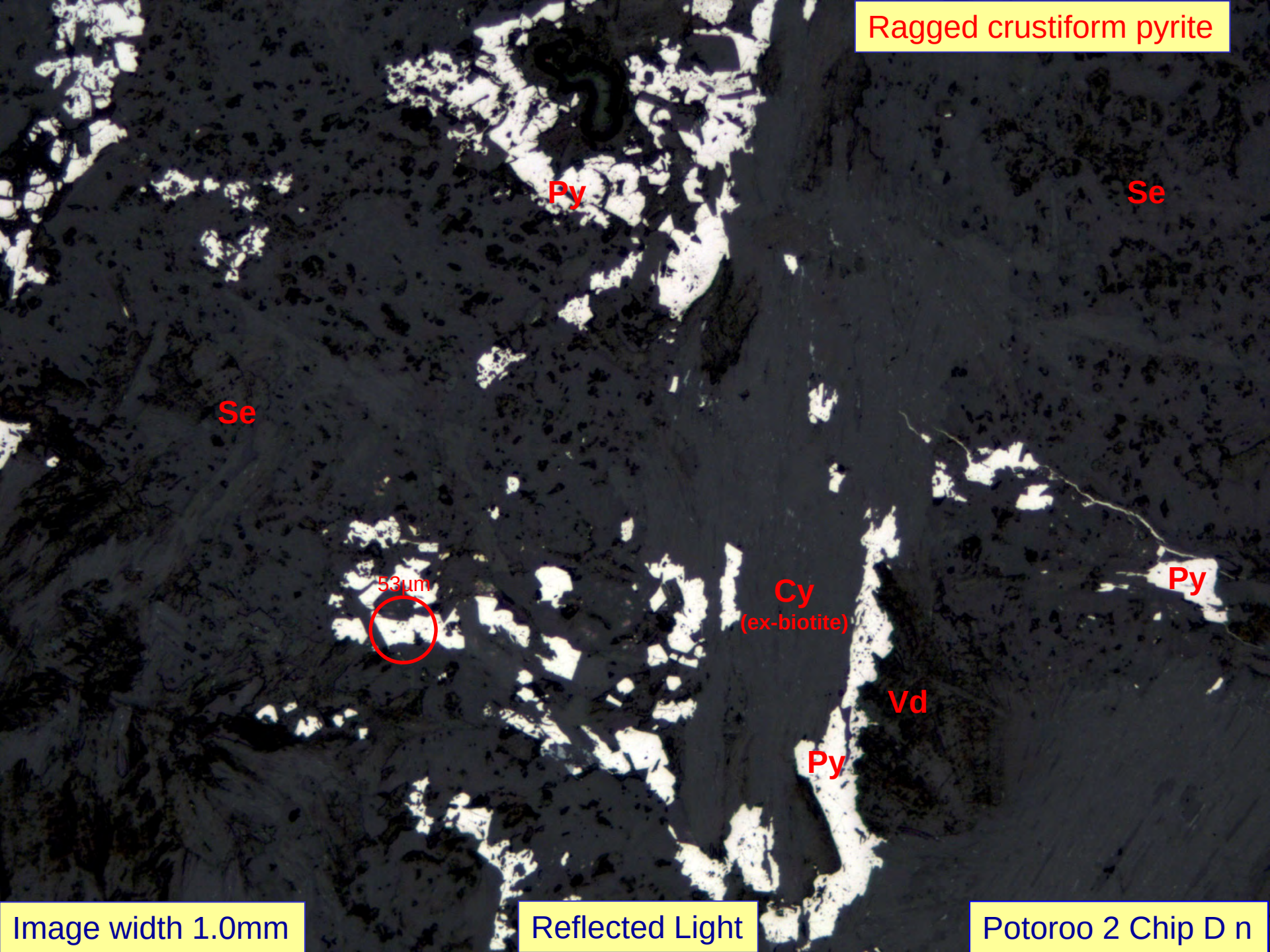

Interstitial pyrite and chalcopyrite
Py
Se
Cl
Cp
53µm
Vd
Py
Qz
Py
Qz
Se
Image width 1.0mm
Reflected Light
Potoroo 2 Chip B i


Rutile needles in chlorite
Qz
Ru
Ru
Cl
27µm
Ru
Image width 515µm
Transmitted Light – uncrossed nicols
Potoroo 2 Chip B j

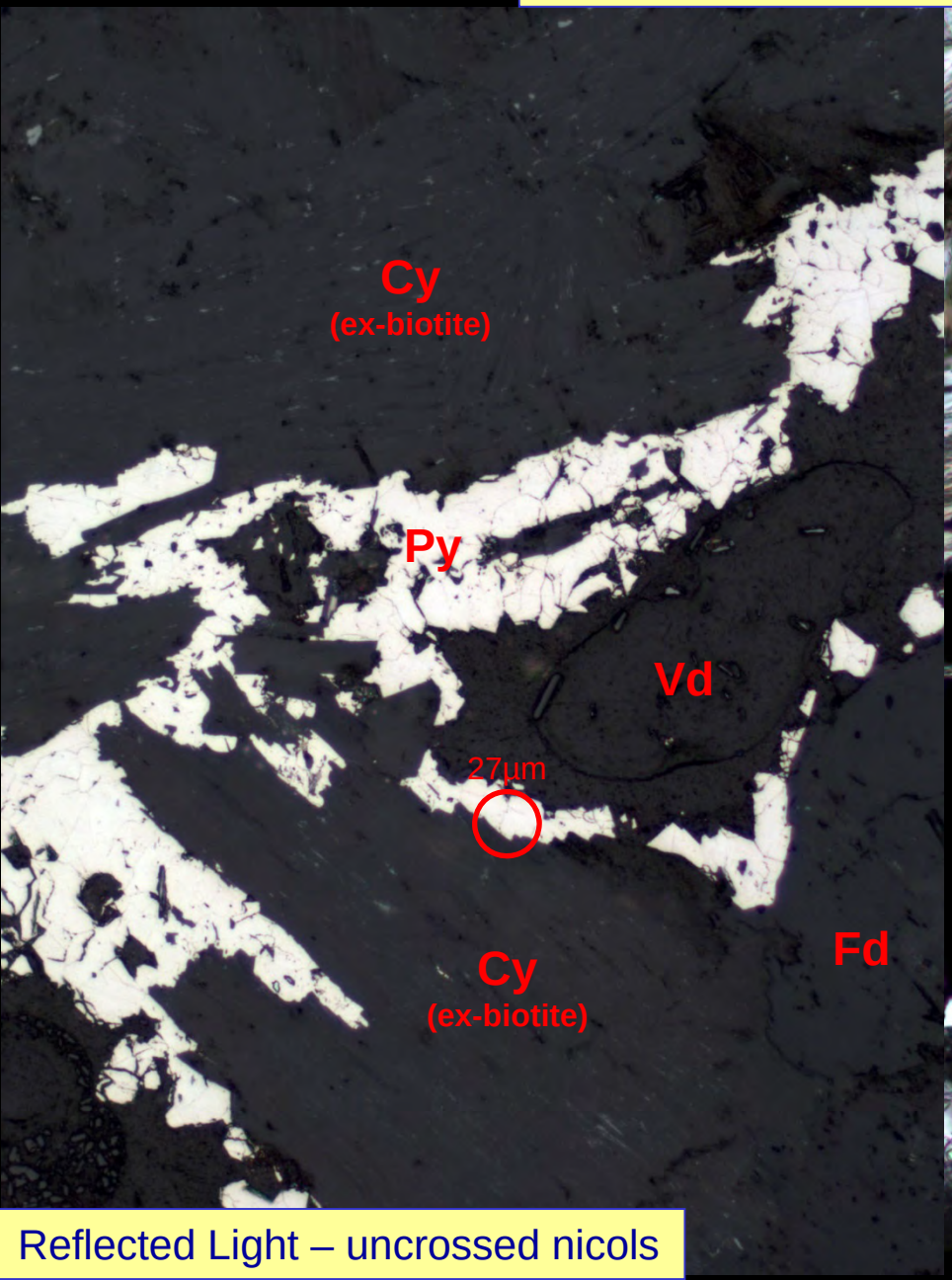

Pyrite and chalcopyrite with rare sphalerite
Fd
Py
Cp
11µm
Se
Sp
Qz
Py (melnikovite)
Fd
Image width 206µm
Reflected Light
Potoroo 2 Chip B k


Euhedral pyrite/arsenopyrite and minor chalcopyrite
Qz
Cl
Cp
Py
Cp
Vd
53µm
image m
Qz
As
Se
Image width 1.0mm
Reflected Light
Potoroo 2 Chip C I

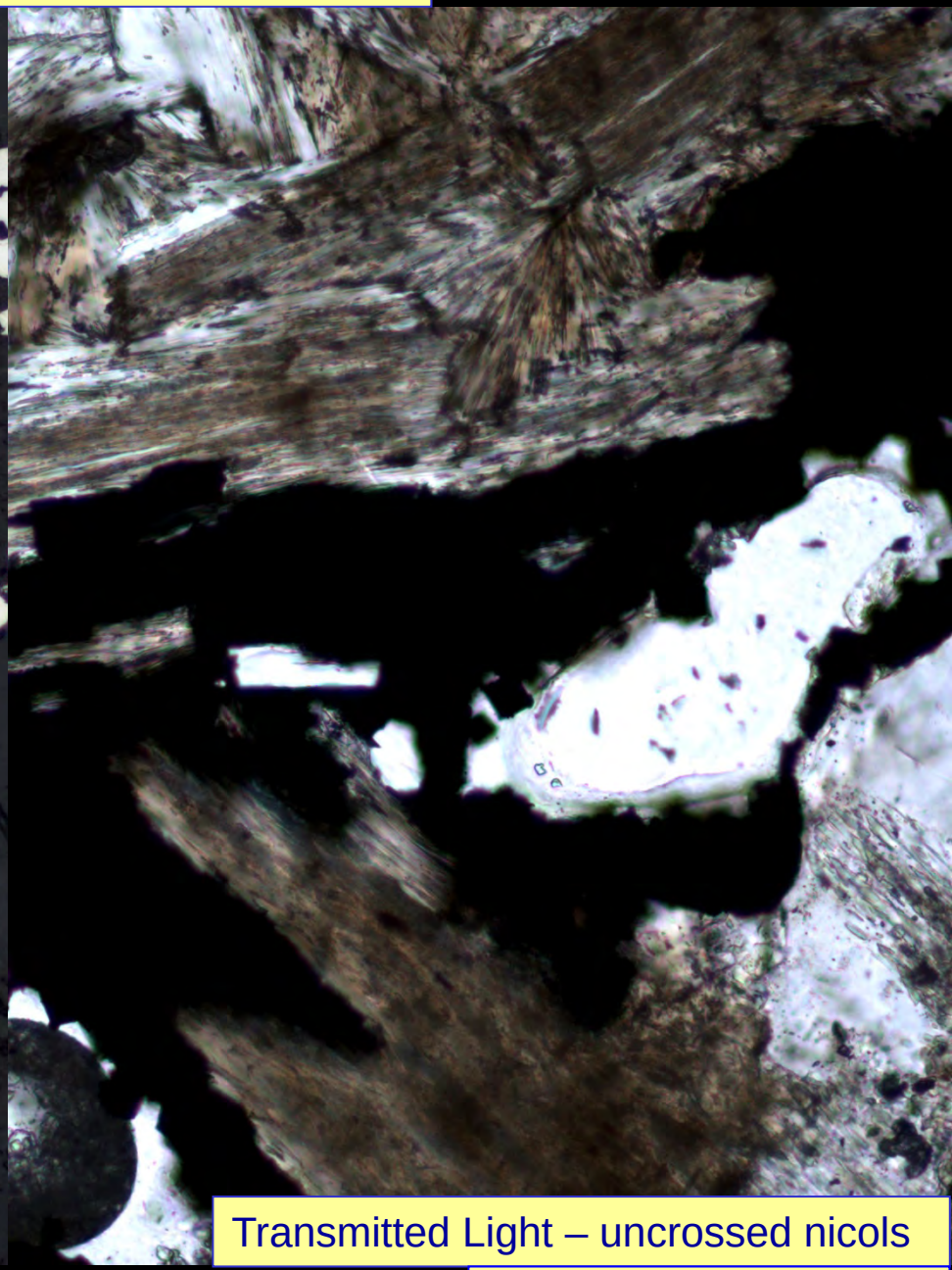

Detail from previous image
Po
Vd
As
As
Se
11µm
As
Cp
Image width 206µm
Reflected Light
Potoroo 2 Chip C m


Ragged crustiform pyrite
Py
Se
Se
53µm
Cy
(ex-biotite)
Py
Vd
Py
Image width 1.0mm
Reflected Light
Potoroo 2 Chip D n

Pyrite interstitial to original biotite laths



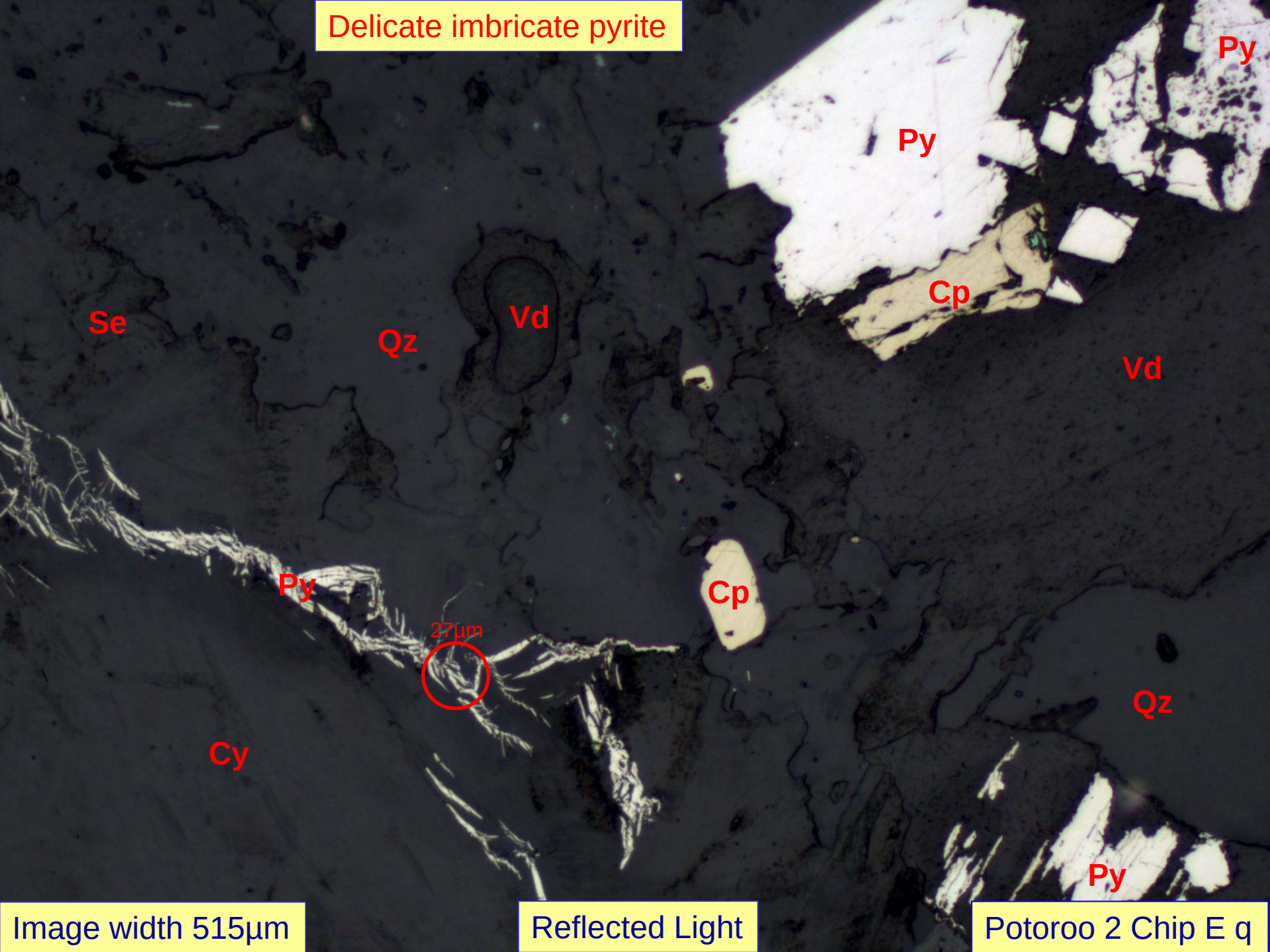
Reflected Light – uncrossed nicols

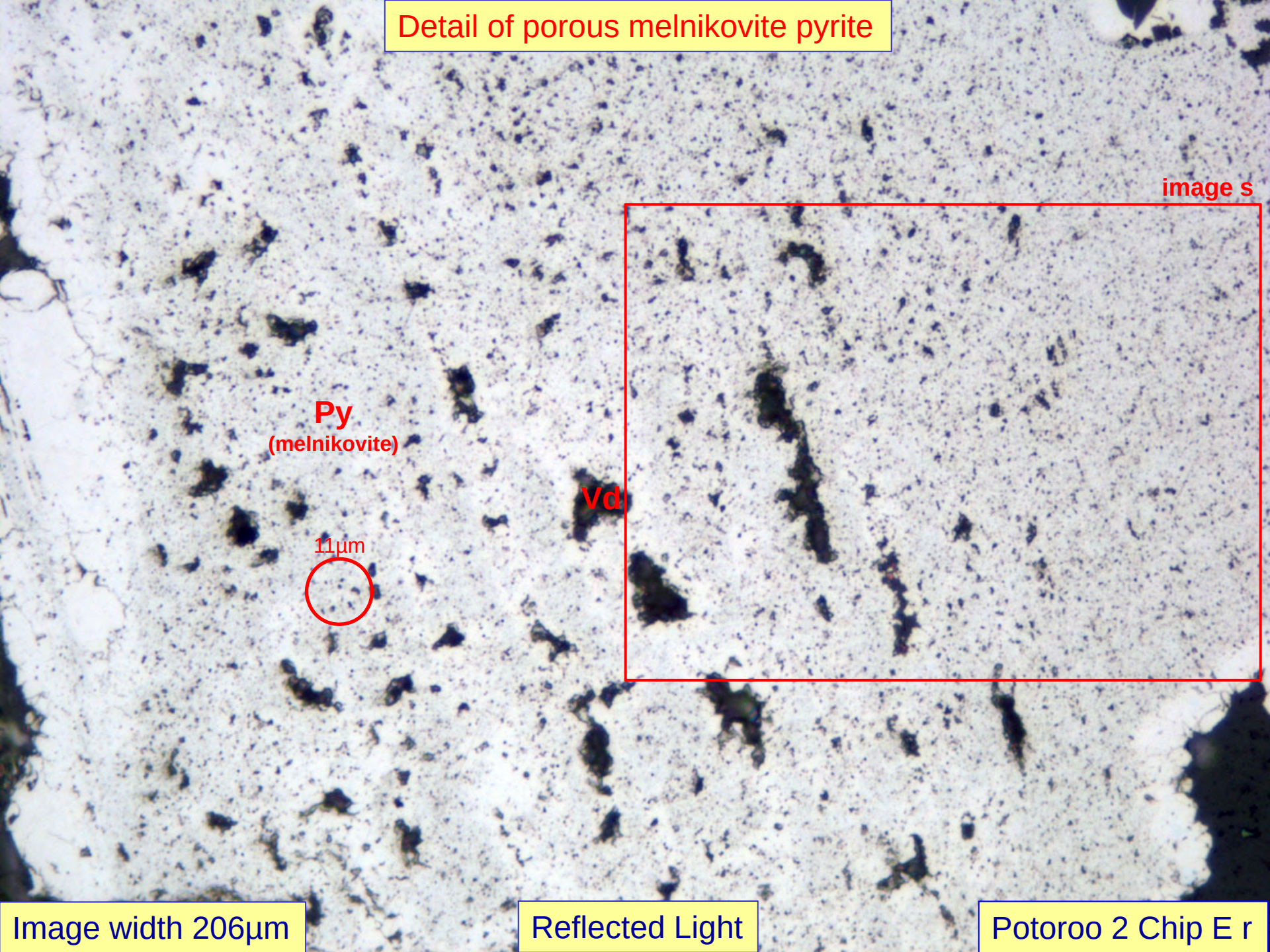


Transmitted Light – uncrossed nicols

Image width 2 x 386µm

Potoroo 2 Chip D o/p


Delicate imbricate pyrite
Py
Py
Cp
Se
Qz
Vd
Vd
Py
27µm
Cp
Qz
Cy
Py
Image width 515µm
Reflected Light
Potoroo 2 Chip E q


Detail of porous melnikovite pyrite
image s
Py
(melnikovite)
Vd
11µm
Image width 206µm
Reflected Light
Potoroo 2 Chip E r

POTOROO #1 (cream chips)

Vol%	19.2	46.7	7.73	10.5	7.21	5.93	0.48	0.03	2.19	0.02	0.01	0	0.05	0	31210
Wt%	**18.2**	**45.3**	**8.66**	**10.5**	**6.92**	**5.59**	**0.69**	**0.04**	**3.98**	**0.03**	**0.01**	**0**	**0.07**	**0**	
X/Y	**Qz**	**Fd**	**Bi**	**MuSe**	**Cl**	**Cy**	**Co**	**Ru**	**Py**	**Ma**	**Po**	**As**	**Cp**	**Sp**	**TOTAL**
1.05			65												65
1.06	80		20												100
1.07		80	20												100
1.08	30	10				15			45						100
1.09		40	10	15	35										100
1.10	5	60		35											100
1.11		65		30					5						100
1.12	100														100
1.14		5				83			12						100
1.15	45					55									100
1.16		100													100
1.17	10	90													100
1.18		25			30	45									100
1.25		85		15											100
1.26	20		55		25										100
1.27					35				60	5					100
1.28		65				35									100
1.29			35			65									100
2.02		20			65	15									100
2.03	5				5		70		5				15		100
2.04	25			45		30									100
2.05		85		15											100
2.06	30	70													100
2.09	40	60													100
2.10	100														100
2.11		80	10	10											100
2.12	85		12						3						100
2.13		100													100
2.14		85		15											100
2.15		95		5											100
2.16	65		10		25										100
2.17	55	45													100
2.18	65	20		13					2						100
2.19		90	10												100
2.20		75		25											100
2.21	60					40									100
2.22		60	40												100
2.23		60	5	35											100
2.24		60		40											100
2.25		75	10		15										100
2.26		80				20									100
2.27		20	65		15										100
3.02		85		15											100
3.03	100														100
3.04		90		10											100
3.05			35												35
3.06		10													10
3.07	20		45		35										100
3.08		55		45											100
3.09		90		10											100
3.10		10	30	25		35									100
3.11		45	10	45											100
3.12		25	70	5											100
3.13	30	50	18						2						100
3.14		10	85	5											100
3.15		15		5		80									100
3.16	60	35			5										100
3.17		60				40									100
3.18		90				10									100
3.19	20	75		5											100
3.20	15		10		75										100
3.21		95		5											100

X/Y	Qz	Fd	Bi	MuSe	Cl	Cy	Co	Ru	Py	Ma	Po	As	Cp	Sp	TOTAL
5.13	20		80												100
5.14		10							90						100
5.15	15		84						1						100
5.18		65		35											100
5.19	90	5		5											100
5.20		75	15	10											100
5.21		60		40											100
5.22			35		65										100
5.23		95		5											100
5.26		80		20											100
5.27		65		35											100
5.28	35	50		15											100
5.29	100														100
5.30		100													100
6.02	100														100
6.03	5	95													100
6.04	40	55		5											100
6.05		85		15											100
6.07	10			90											100
6.08		65		5					30						100
6.09	30	45		10	15										100
6.10	10	85		5											100
6.11		75		25											100
6.12		80		20											100
6.16		10		20		70									100
6.17	100														100
6.18		20		75					5						100
6.19		75		10	15										100
6.23		5	15	35	35	10									100
6.24	20	15		15		50									100
6.25	25	70		5											100
6.26	10	80		10											100
6.27		30	65	5											100
6.28		25			75										100
6.29		45			55										100
6.30		85		15											100
7.01		15			85										100
7.02	20	10		5					65						100
7.03		5		30	65										100
7.04	25	25	50												100
7.05	90			10											100
7.06		25	50	10	15										100
7.07		75		23					2						100
7.08	25	25	50												100
7.09		90				10									100
7.20		55		5		40									100
7.21	100														100
7.22	25	65		10											100
7.23	95	5													100
7.24		90		10											100
7.26		70		30											100
7.27		15		5		80									100
7.28	45	25	30												100
7.29		90		10											100
7.30		10		5											15
8.01	100														100
8.02	5	85		10											100
8.03		90		10											100
8.04	55		45												100
8.05	5	75		20											100
8.11	100														100
8.12	70		30												100

X/Y	Qz	Fd	Bi	MuSe	Cl	Cy	Co	Ru	Py	Ma	Po	As	Cp	Sp	TOTAL
10.12		10							30						40
10.13		40		10											50
10.14		95		5											100
10.15		70				30									100
10.16	75		25												100
10.17	10	80		10											100
10.18	30			25		43			2						100
10.19	20	15		15		50									100
10.21		95		5											100
10.22		80		20											100
10.23		85		15											100
10.24		15		10			75								100
10.25		80		10					10						100
10.26	20	80													100
10.27		65				35									100
10.28		80			20										100
10.29	100														100
10.30		75				20		5							100
11.01	5	15	40		40										100
11.02		50	45	5											100
11.03		15			85										100
11.04		10	5		55	30									100
11.05		70		28							2				100
11.06		85		15											100
11.07	45	30	25												100
11.08	50	50													100
11.09	65	30		5											100
11.10		90		10											100
11.12		75				25									100
11.14		5	5		90										100
11.15	10	80		10											100
11.16		85		15											100
11.17	10			10	80										100
11.18	100														100
11.19		50				50									100
11.20		65			20	15									100
11.21		90		10											100
11.24		90		10											100
11.25		65		10		25									100
11.26		5		70		25									100
11.27	95	5													100
11.28		85	10	5											100
11.29		45		55											100
11.30	15	65													80
12.02		95		5											100
12.03	70	30													100
12.04		95		5											100
12.05		95		5											100
12.06	70	30													100
12.07	25	70		5											100
12.08		95		5											100
12.10		55	10	10	25										100
12.11		95		5											100
12.12	20	50		30											100
12.13	60		40												100
12.14		55			45										100
12.15		20	15		65										100
12.16	10		90												100
12.17		10		5	85										100
12.18		85		15											100
12.19	35	45		20											100
12.21	98								2						100

X/Y	Qz	Fd	Bi	MuSe	Cl	Cy	Co	Ru	Py	Ma	Po	As	Cp	Sp	TOTAL
3.22									45						45
3.25	15	75		10											100
3.26	20	55		25											100
3.27	85	10		5											100
3.28		75		25											100
3.29		65		35											100
4.01				5	95										100
4.02		10		55			5		30						100
4.03	15	70		15											100
4.04				100											100
4.05		75		25											100
4.06		80				20									100
4.10		85		5		10									100
4.11	5	10				85									100
4.12	5	65	10	20											100
4.13		90		10											100
4.14						15			85						100
4.15		100													100
4.16		65		15		20									100
4.17		45		35					20						100
4.18		70		25	5										100
4.19	50	25		15	10										100
4.20		85		10					5						100
4.21	10		90												100
4.22		30	60	10											100
4.23		60		40											100
4.24		80		20											100
4.25	15														15
4.26	100														100
4.27	25	60	5	7					3						100
4.28	100														100
4.29		80		17					3						100
4.30		45		25											70
5.01		100													100
5.02	25	60	5	10											100
5.03		85		15											100
5.04	80					20									100
5.05			100												100
5.06		80		20											100
5.07		80	5	15											100
5.08			90		10										100
5.10		5	95												100
5.11		75		5	20										100
5.12		80		5	15										100

X/Y	Qz	Fd	Bi	MuSe	Cl	Cy	Co	Ru	Py	Ma	Po	As	Cp	Sp	TOTAL
8.15		95		5											100
8.16		85		15											100
8.17		30				69			1						100
8.22		80		10	10										100
8.23		85		15											100
8.24	40		45			15									100
8.25		65		35											100
8.26		5		30		65									100
8.27		95		5											100
8.28		20		15	60				5						100
8.29		75		25											100
8.30	100														100
9.01	100														100
9.02		70		5	25										100
9.03					100										100
9.04		90				7		3							100
9.05		90		10											100
9.06		80		20											100
9.07		95		5											100
9.08		70		23					7						100
9.09	15	10	75												100
9.13				25		75									100
9.14	90	5		5											100
9.15	80	5							15						100
9.16	20	60		20											100
9.17		55		15	30										100
9.18	15	80		5											100
9.19	95			5											100
9.20		90		10											100
9.21		85		15											100
9.24	15	85													100
9.25	90	10													100
9.27		70							30						100
9.28					100										100
9.29	5	65		23					7						100
9.30		50			50										100
10.01				85	15										100
10.02	55	35		10											100
10.03	45	40				15									100
10.04		10		88					2						100
10.06					100										100
10.07	100														100
10.08	20	40	40												100
10.11	95	5													100

X/Y	Qz	Fd	Bi	MuSe	Cl	Cy	Co	Ru	Py	Ma	Po	As	Cp	Sp	TOTAL
12.22		90		10											100
12.23	20	40		25	15										100
12.24	100														100
12.25	45	50		5											100
12.26	10		90												100
12.27	60		40												100
12.28	100														100
12.29		95		5											100
12.30		90		10											100
13.01	25	20	10		45										100
13.02		75		10	15										100
13.03	100														100
13.04	30	65	5												100
13.05			100												100
13.06		15				25			45						85
13.07	20	75		5											100
13.08	30	60		5					5						100
13.09		90			10										100
13.10	5	60		35											100
13.12		80		20											100
13.13		70		5	25										100
13.14	5	75		15	5										100
13.15		60		40											100
13.16		70		5		25									100
13.17		90			10										100
13.18	100														100
13.19		75	20	5											100
13.20		15		80					5						100
13.21		10		20		70									100
13.22		90		10											100
13.23		10		5		85									100
13.24	100														100
13.25		100													100
13.28	90					10									100
13.29	20	70				10									100
14.08	100														100
14.11		90		10											100
14.12	20	45		15	20										100
14.13		50			50										100
14.14		90			10										100
14.22		30		70											100
14.23		90		10											100
14.24		60		5		35									100
14.25		85		15											100

POTOROO #2 (white chips)

Vol%	25.68	7.65	1.76	45.35	10.56	7.37	0.13	1.27	0.00	0.00	0.22	0.00	0.00	31700
Wt%	**24.61**	**7.50**	**1.99**	**45.62**	**10.24**	**7.01**	**0.21**	**2.33**	**0.00**	**0.01**	**0.49**	**0.00**	**0.00**	
X/Y	**Qz**	**Fd**	**Bi**	**MuSe**	**Cl**	**Cy**	**Ru**	**Py**	**Ma**	**Po**	**As**	**Cp**	**Sp**	**TOTAL**
1.18			15	60										75
1.22				45										45
1.23	40			60										100
1.24	90			10										100
1.25	70			30										100
1.26		10		90										100
1.27	95			5										100
1.28	15	40		40				5						100
2.02	100													100
2.03			5		95									100
2.04				65	35									100
2.05	20				80									100
2.06	100													100
2.07	40			60										100
2.08	100													100
2.09			30	70										100
2.12	5	5		90										100
2.13				20	80									100
2.14		20		80										100
2.15	35		55	10										100
2.16				30	70									100
2.17		5	30	65										100
3.04	5					95								100
3.07						20								20
3.08			40	60										100
3.09		10		85				5						100
3.10		30		70										100
3.11	100													100
3.13		40		59				1						100
3.14	15			85										100
3.15		65		35										100
3.16			10			90								100
3.17	40			53				7						100
3.18		10		90										100
3.19				60	40									100
3.22	15			85										100
3.23				100										100
3.24	90			10										100
3.25	75			25										100
3.26		5		95										100
3.27		35		50	15									100
3.28		5		45	50									100
3.29		5		95										100
4.04	70	5		25										100
4.05		10		90										100
4.06	100													100
4.07	30			70										100
4.08	95			5										100
4.09				100										100
4.10				100										100
4.11	45			55										100
4.12	100													100
4.13				100										100
4.14	85			15										100
4.15				100										100
4.16				90	10									100
4.17	15			25	60									100
4.18				20				30						50

X/Y	Qz	Fd	Bi	MuSe	Cl	Cy	Ru	Py	Ma	Po	As	Cp	Sp	TOTAL
6.26				99				1						100
6.27		5		95										100
6.28	40				60									100
6.29		30		69						1				100
6.30						100								100
7.01				100										100
7.02				35	10	55								100
7.03	90			10										100
7.04	95			5										100
7.05	5				95									100
7.06				35	65									100
7.07	10	35		55										100
7.08				15	20	65								100
7.09				100										100
7.10				100										100
7.11	15	55		30										100
7.12					100									100
7.15				65										65
7.16				100										100
7.17	100													100
7.18	60			40										100
7.19				100										100
7.20				100										100
7.21		40		60										100
7.22		25		75										100
7.27					100									100
7.28	25			40	35									100
7.29		35		65										100
8.01	100													100
8.02	80			20										100
8.03	80			20										100
8.04	40			60										100
8.05				100										100
8.09	60			35	5									100
8.10				100										100
8.11				100										100
8.12	45			55										100
8.13	95							5						100
8.14				5	93		2							100
8.15	20			60	20									100
8.16					100									100
8.17	85			15										100
8.19	100													100
8.20				40	60									100
8.21	10			10				80						100
8.22		30			70									100
8.23		5		60	35									100
8.24				100										100
8.25		40		60										100
8.26	10	35		55										100
8.27	40	15		45										100
8.28	55	15		30										100
8.29		90				10								100
8.30		40		60										100
9.01		10		10		30								50
9.02	80			20										100
9.03		50		50										100
9.04		70		30										100

X/Y	Qz	Fd	Bi	MuSe	Cl	Cy	Ru	Py	Ma	Po	As	Cp	Sp	TOTAL
10.27				40		60								100
10.28	100													100
10.29		25		75										100
11.02		40		60										100
11.03		15		40		45								100
11.04	10	40		50										100
11.05		30		70										100
11.06				70	30									100
11.07				100										100
11.08				15		85								100
11.09				100										100
11.10						100								100
11.11				85	15									100
11.13	45			55										100
11.14	95			5										100
11.15				100										100
11.16				80		20								100
11.17	5				95									100
11.18	55			45										100
11.19				20				80						100
11.20	5	60	20	15										100
11.21	90			10										100
11.22		10		90										100
11.23		60		40										100
11.25				100										100
11.26				100										100
11.27	100													100
11.28				85	15									100
11.29		75		25										100
11.30		65		35										100
12.01				100										100
12.02	5			95										100
12.03		65		35										100
12.04				100										100
12.05	100													100
12.06	55			45										100
12.07		20		80										100
12.08	95			5										100
12.09					100									100
12.10		30		70										100
12.11	100													100
12.12	100													100
12.13	30			70										100
12.14		40		40	20									100
12.15				100										100
12.16				100										100
12.17				100										100
12.18	100													100
12.19	35			65										100
12.20		60		38				2						100
12.21	75					25								100
12.22		40				60								100
12.23	20			25	20	35								100
12.24	100													100
12.25	60			30		10								100
12.26		40		58				2						100
12.27	35			65										100
12.28		10		10				5						25

X/Y	Qz	Fd	Bi	MuSe	Cl	Cy	Ru	Py	Ma	Po	As	Cp	Sp	TOTAL
4.19	65				32		3							100
4.20		5		95										100
4.21	65			35										100
4.22		5	20	30				45						100
4.23		10		75	15									100
4.24	15					85								100
4.25	75	10			15									100
4.26				100										100
4.27		10		90										100
4.28				100										100
4.29		15		5				80						100
4.30					45	50		5						100
5.01	80			20										100
5.02					85	15								100
5.03	25			25	50									100
5.04				85	15									100
5.05				5	30	65								100
5.06	45			20		35								100
5.07	85			15										100
5.08		15		85										100
5.09	90			10										100
5.10				100										100
5.11	5			95										100
5.12	55			45										100
5.13					100									100
5.14		25		25	49		1							100
5.15	15					85								100
5.16				100										100
5.17	100													100
5.18	90					10								100
5.19				85	15									100
5.21		15		85										100
5.22				100										100
5.23	70			30										100
5.24	15			55		30								100
5.25	85					15								100
5.26	15		85											100
5.27				100										100
5.28			40											40
6.04				100										100
6.10				100										100
6.11	100													100
6.12				100										100
6.19				45		55								100
6.20		20		60	20									100
6.21				5	95									100
6.22		20		80										100
6.23				99				1						100
6.24		20		70		10								100
6.25				90		10								100

X/Y	Qz	Fd	Bi	MuSe	Cl	Cy	Ru	Py	Ma	Po	As	Cp	Sp	TOTAL
9.05		30		70										100
9.06	80	10		10										100
9.07	5	5		10	20	60								100
9.08		25		75										100
9.09	90			10										100
9.10		20		50	30									100
9.11				80	20									100
9.12		5		95										100
9.14				85	15									100
9.15	55			45										100
9.16	100													100
9.17				64	35			1						100
9.18	45		10		45									100
9.19				100										100
9.20				10	85		5							100
9.21	100													100
9.22					100									100
9.23	60			40										100
9.25	65		35											100
9.26	100													100
9.27	10			80		10								100
9.28			25	75										100
9.29	30	10		60										100
9.30	60			25	15									100
10.01		80		20										100
10.02	65		34				1							100
10.03	20		50	30										100
10.04	20	30		50										100
10.05	100													100
10.06	30			70										100
10.07	85			15										100
10.08				25		75								100
10.09	100													100
10.10					100									100
10.11	10			90										100
10.12	10				90									100
10.13				100										100
10.14		35		65										100
10.15	100													100
10.16				20										20
10.17	20			80										100
10.18				65		35								100
10.19	100													100
10.20	5			10		85								100
10.21		20		80										100
10.22		5		40		55								100
10.23						55		45						100
10.24	95					5								100
10.25						100								100
10.26				100										100

X/Y	Qz	Fd	Bi	MuSe	Cl	Cy	Ru	Py	Ma	Po	As	Cp	Sp	TOTAL
12.29	90			10										100
13.02	65			35										100
13.03				80	20									100
13.04	40			60										100
13.05				85	15									100
13.06	95					5								100
13.07				85		15								100
13.08		30		70										100
13.09				50	50									100
13.10				60		40								100
13.11						55								55
13.12	40			60										100
13.13	55			45										100
13.14				100										100
13.15				100										100
13.16				100										100
13.17		25		75										100
13.18				100										100
13.19	5			15	80									100
13.20				100										100
13.21				10	90									100
13.22				65		35								100
13.24				50							5			55
13.25	100													100
13.26		60	10	30										100
13.27	55	35		10										100
13.28	5		45	50										100
13.29	100													100
13.30	60			40										100
14.01					10	90								100
14.02	75			25										100
14.03				35							65			100
14.11	30			70										100
14.12				15	85									100
14.13	45			55										100
14.14	40				60									100
14.15		30		70										100
14.16				90	10									100
14.17		80		17				3						100
14.18					70		30							100
14.19				100										100
14.22	50				10	40								100
14.23				70	30									100
14.24	35			65										100
14.25		70		30										100
14.26	50					50								100
14.27	100													100
14.28				40		60								100
14.29	5					95								100
MEAN	57.7	29.2	31.1	58.0	49.3	48.6	7.0	21.2		1.0	35.0			

Potoroo Photomicrographs Log

Photo#	Sample	Image	R/T	U/X	Obj	Minerals present	Comments
23510	Potoroo #2	A	T	U	1.25	SeQzCy	chip E
23511	Potoroo #2	B	R	U	5	SeCyPyQzCp	chip A
23512	Potoroo #2	C	R	U	20	CyPySeQzMa	enlarged view #23511
23513	Potoroo #2	D	R	U	20	CySePyQzCp	chip A
23514	Potoroo #2	E	R	U	20	CyPySeFdVd	chip A
23515	Potoroo #2	F	R	U	10	QzSeClPy	chip A
23516	Potoroo #2	G	R	U	20	CyPyVdFdSeQz	chip A, void centre, Fd bottom left
23517	Potoroo #2	H	R	U	50	PyVdQz	chip A
23518	Potoroo #2	I	R	U	10	QzSePyVdClCp	chip B
23519	Potoroo #2	J	T	U	20	ClQzRu	chip B
23520	Potoroo #2	K	R	U	50	PyFdQzSeCpSp	chip B
23521	Potoroo #2	L	R	U	10	QzVdSeClPyAsCp	chip C
23522	Potoroo #2	M	R	U	50	SeVdAsPoCp	chip C, enlarged view #23521
23523	Potoroo #2	N	R	U	10	SeCyPyVdFd	chip D
23524	Potoroo #2	O	R	U	20	CyPyVdFdSe	chip D, late Py crusts
23525	Potoroo #2	P	T	U	20	CyPyVdFdSe	chip D, same view as #23524
23526	Potoroo #2	Q	R	U	20	QzCySeVdPyCp	chip E
23527	Potoroo #2	R	R	U	50	PyVd	chip E
23528	Potoroo #2	S	R	U	100	PyVdMa	chip E, enlarged view #23527
23529	Potoroo #1	A	T	U	1.25	FdQzBtSe	chip A
23536	Potoroo #1	B	T	U	5	QzFdSeBtCy	chip B, ferruginous Cy coating (all #1 grains)
23530	Potoroo #1	C	R	U	5	FdQzSePyBt	chip A
23531	Potoroo #1	D	R	U	5	QzFdSePyBtVd	chip A, late Py crusts
23532	Potoroo #1	E	R	U	20	PyVdQzBt	chip A, enlarged view #23531
23533	Potoroo #1	F	R	U	20	BtPyFd	chip A
23534	Potoroo #1	G	T	U	20	BtPyFd	chip A, same view as #23533
23535	Potoroo #1	H	R	U	10	MuFdPyBtRuCo	chip B
23537	Potoroo #1	I	T	X	5	FdQzCySe	chip C, zonal plag alteration
23538	Potoroo #1	J	R	U	20	PyFdBtVdCpPo	chip C
23539	Potoroo #1	K	R	U	5	QzPyClFdVd	chip D
23540	Potoroo #1	L	R	U	5	ClPyVdCoFdCp	chip D
23541	Potoroo #1	M	R	U	20	PyClVdCoCo	chip D, enlarged view #23541
23542	Potoroo #1	N	R	U	10	ClPyVdFd	chip E
23543	Potoroo #1	O	R	U	10	FdSePyBtRu	chip F
23544	Potoroo #1	P	R	U	10	BtPyFdSeVd	chip F
23545	Potoroo #1	Q	R	U	50	PyBtVd	chip F, enlarged view #23545