

Mineral Resources Tasmania

Laboratory Report

LJN2018-130

MINERALOGY/PETROLOGY ANALYSES, NODDY CREEK, MACQUARIE HARBOUR



An unpublished Mineral Resources
Tasmania Report for:

**Accelerate
Resources Limited**

By: R.S. Bottrill and L Unwin

Date: 25 July 2019

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SUMMARY

The samples submitted include four serpentinites and a calc-silicate hornfels. The serpentinites are sheared and mostly black due to fine grained magnetite and sulphides, including pyrite and possibly haalpaite. (Ni-Fe-Mg-S-hydroxide). The hornfels is clinozoisite, amphibole, prehnite and Ti-oxide rich and may have been an altered mafic metasediment.

INTRODUCTION

Five drill core samples were submitted by Accelerate Resources Limited from a drillhole in the Spero Creek ultramafic belt, Macquarie Harbour.

The main objective of this study is to determine the mineralogy and petrology of the rock samples.

The sample details are given in Table 1.

Table 1: Sample details

MRT Reg. No.	Sample Number	Location	Sample Description
G409083	YHD0001/70.7-70.95	Sorell Pen	serpentinite
G409084	YHD0001/71.0-72.2	Sorell Pen	serpentinite
G409085	YHD0001/72.74-72.78	Sorell Pen	serpentinite
G409086	YHD0001/74.15-74.37	Sorell Pen	serpentinite
G409087	YHD0001/83.58-83.78	Sorell Pen	hornfels

METHODOLOGY

A representative portion of each core sample was prepared as a polished thin section to study the mineralogy and textures. Some was tested by XRD to confirm the mineralogy.

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DESCRIPTIONS

G409083 YHD0001/70.7-70.95

A sheared, mylonitised, fine grained serpentinite, mostly black with patches of green serpentine to about 10mm in a black matrix, with white serpentine veinlets (Fig. 1).

In thin section the sample consists mostly of roughly laminated, sheared and veined serpentine, in two main forms, both probably lizardite. The early serpentine is black and effectively opaque in thin section, perhaps due to submicroscopic magnetite inclusions (Fig 2, 3)? This opaque serpentine occurs as clasts and layers that have been brecciated and veined by later, more transparent serpentine, and can contain small blebs and veinlets of pyroaurite(?) (Fig 2, 3). There are a few scattered chromite grains to about 3 mm in size, highly brecciated and mostly altered to ferritchromite (oxidised chromite) and magnetite (Fig. 4 - 6). The black serpentine contains abundant patches of opaque minerals, some resembling finely diffuse magnetite, but some resembling pyrobitumen and protographite, with weak to strong bireflectance, but possibly is a valleriite group mineral, perhaps haalpaite (Ni-Fe-Mg-S-hydroxide, Figs 6 – 7)? There are probable Ni-Fe sulphides (bravoite-vaesite?, Fig. 8), being replaced by serpentine. Other minerals include possible small fragments of clinopyroxenes.



Fig. 1 Sample G409083, Clastic-textured serpentinite, sheared and veined. Plain light, FOV (field of view) ~80mm.

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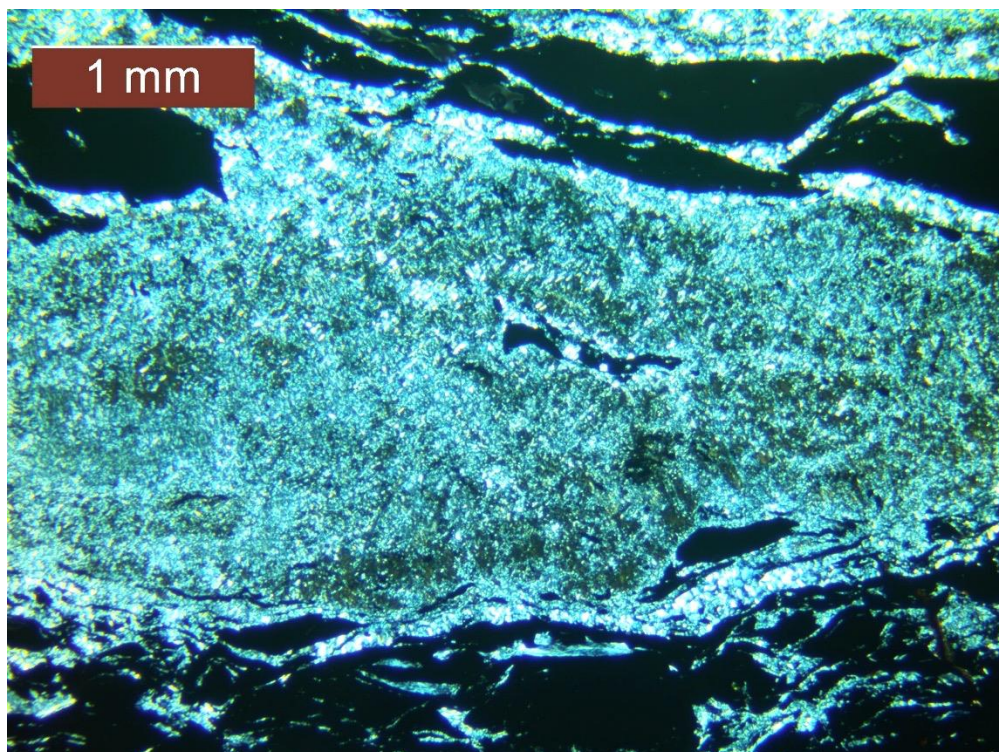


Fig. 2. Sample G409083, Polarised transmitted light, cross polars, showing highly brecciated and sheared opaque black serpentine in a matrix of more transparent serpentine.

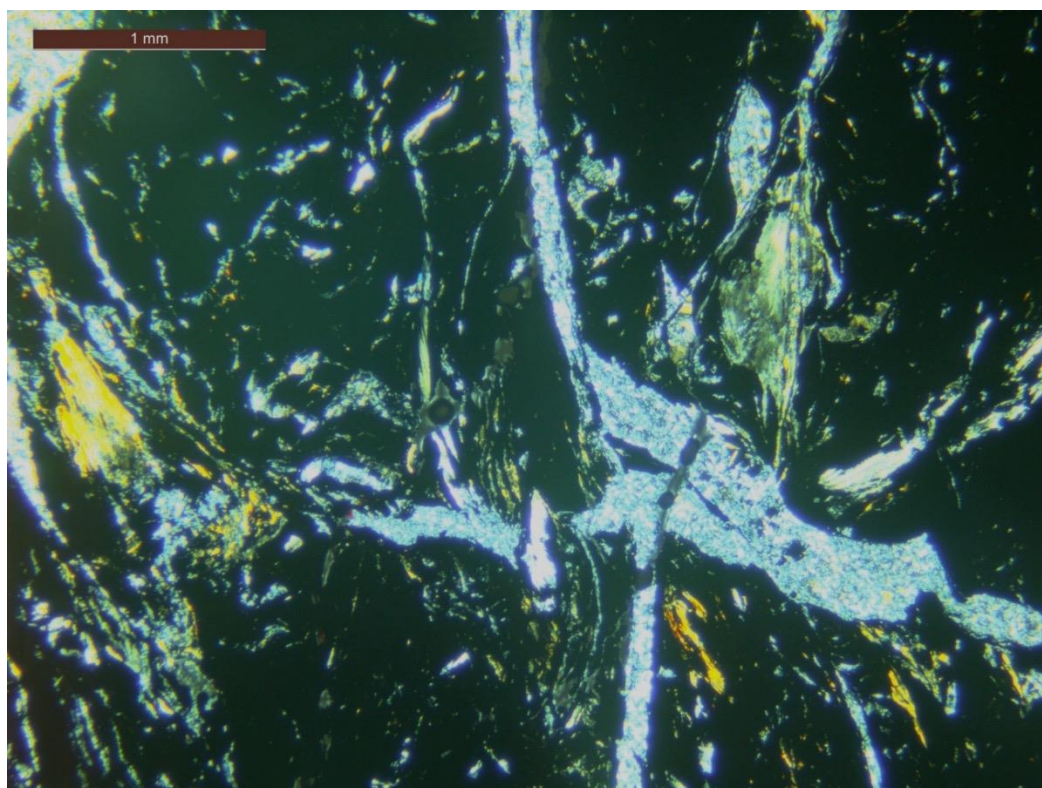


Fig. 3. Sample G409083, Polarised transmitted light, cross polars, showing highly brecciated and sheared opaque black serpentine and yellow pyroaurite(?) veined by more transparent serpentine.

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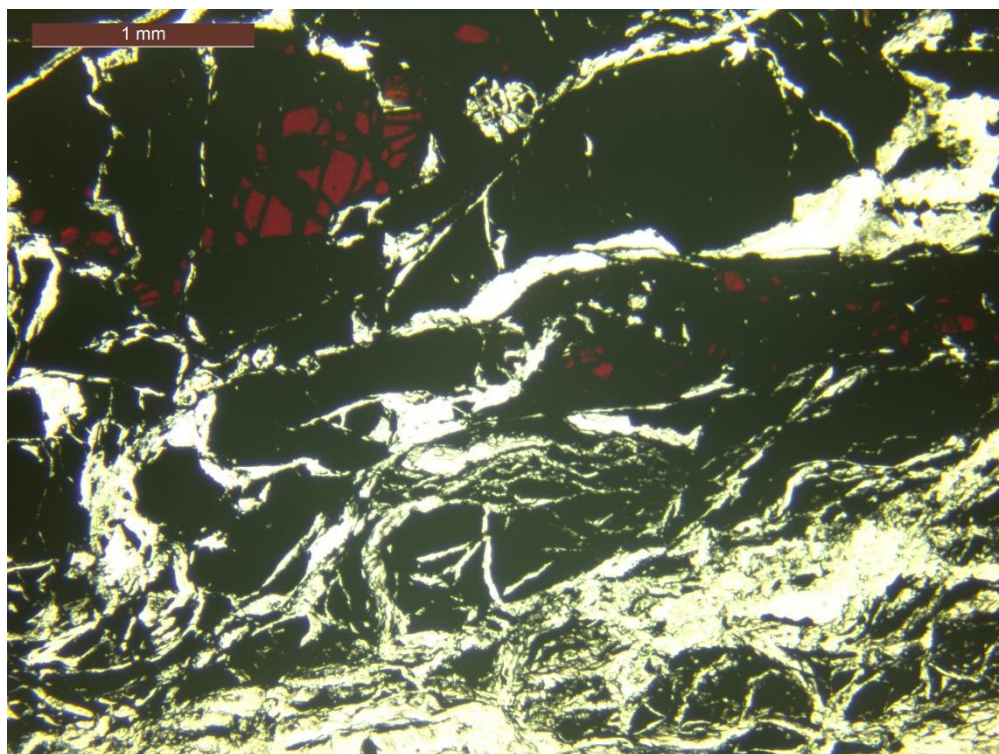


Fig. 4. Sample G409083, Polarised transmitted light, plain polars, showing brecciated chromite (black to dark red) grains in a highly sheared and deformed black serpentine matrix veined with colourless serpentine.

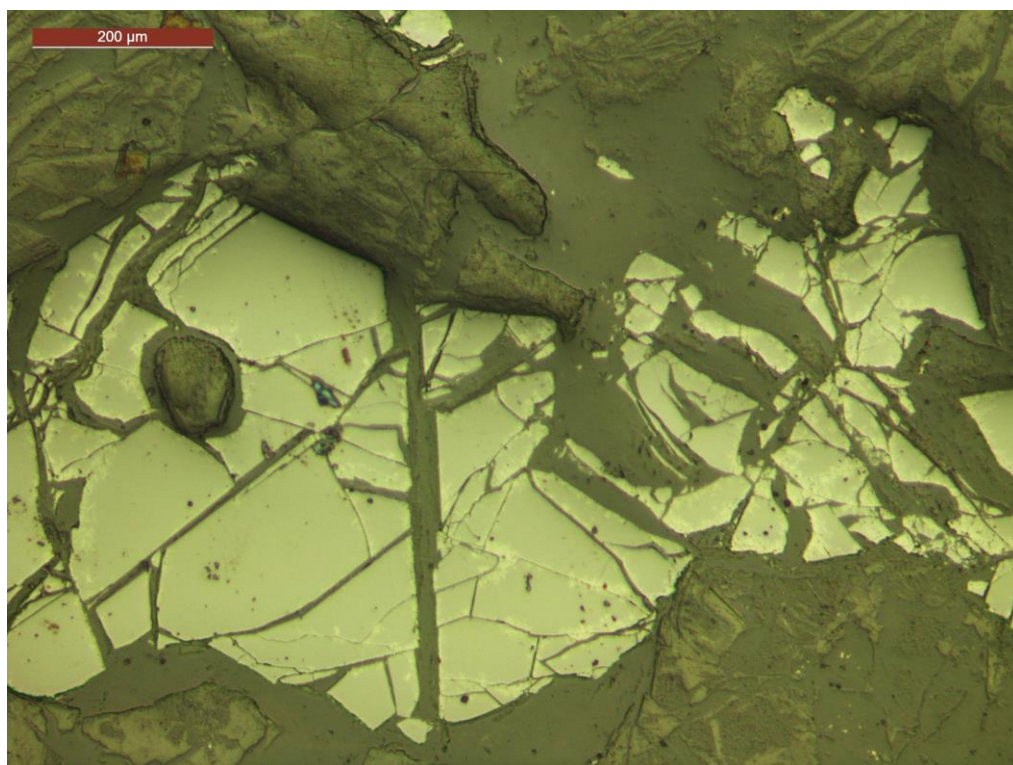


Fig. 5. Sample G409083, Polarised reflected light, plain polars, showing highly brecciated chromite (bright grey) grains with some alteration to magnetite (greyish white), in serpentine.

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Fig. 6. Sample G409083, Polarised reflected light, plain polars, showing bright grey magnetite aggregates after chromite (lower RHS), a blue-grey limonite vein (centre left), diffuse medium grey patches of very fine grained magnetite, and some small patches of yellowish haalpaite(? , upper right) in a dark grey serpentine matrix.

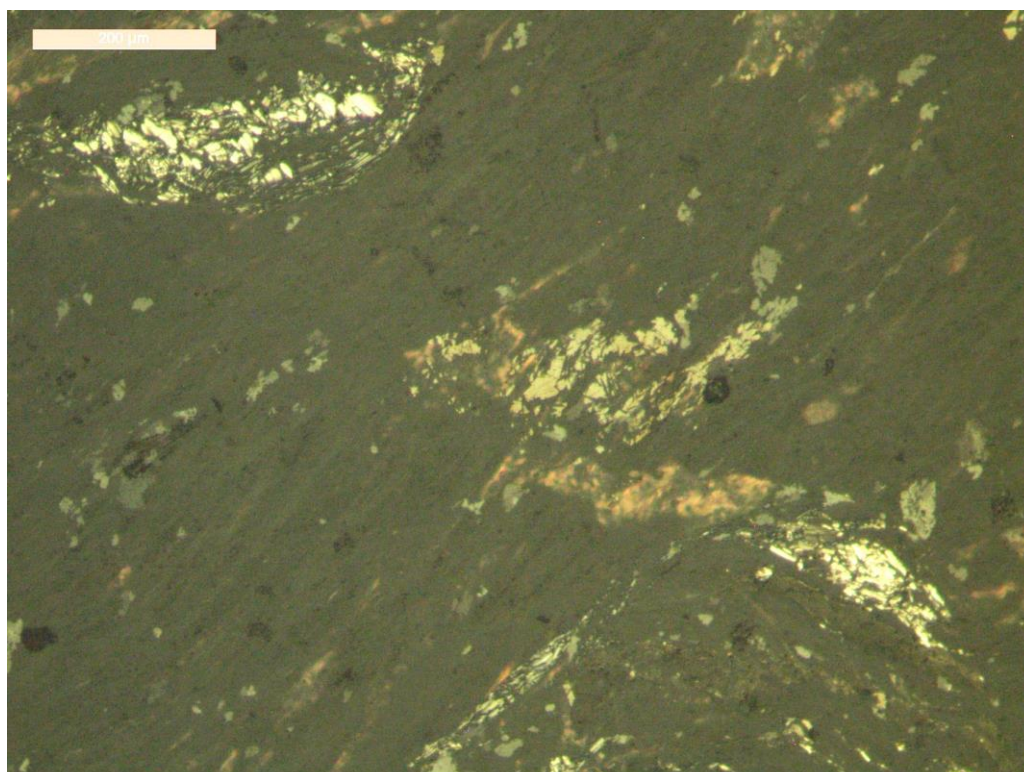


Fig. 7. Sample G409083, Polarised reflected light, plain polars, showing bright grey disseminated magnetite, and some small patches of bright yellowish granular/platey haalpaite (? , upper right) in a serpentine matrix. Pinkish-brown patches are transparent serpentine. Scale bar 100 microns.

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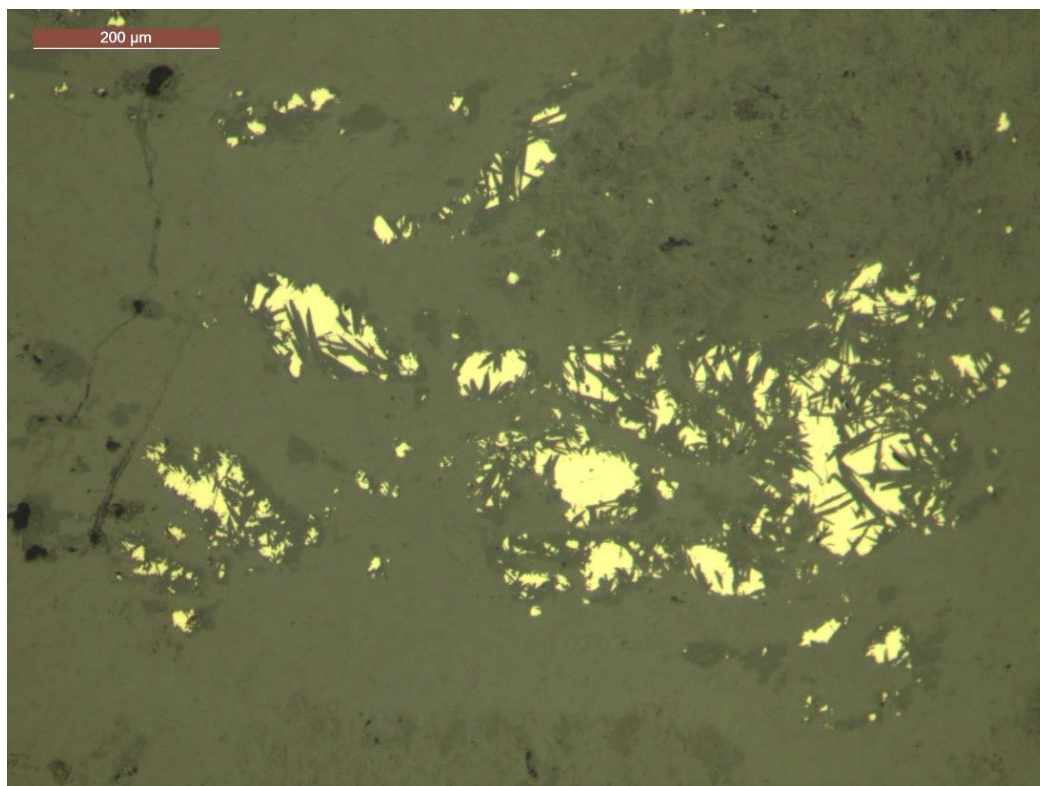


Fig. 8. Sample G409083, Polarised reflected light, plain polars, showing patches of bravoite? (yellow) being replaced by the platy serpentine matrix.

G409084 YHD0001/71.0-72.2

A dark grey-green, mottled fine grained, brecciated and veined serpentinite (Fig. 9).

In thin section the sample, similar to the above, consists mostly of roughly sheared, brecciated and veined serpentine, in two main forms, both probably lizardite (Fig. 10). The early serpentine is black and effectively opaque in thin section, probably due to submicroscopic magnetite and pyrite inclusions (Fig 11 - 14) This opaque serpentine occurs mostly as clasts, veins and layers that have been brecciated and veined by later, more transparent serpentine, and can contain small blebs and veinlets of pyroaurite(?) (Fig 10). There are a few scattered chromite grains to about 3 mm in size, highly brecciated and mostly altered to ferritchromite and magnetite (Fig. 13 - 14). Some magnetite and pyrite occurs in veins to about 0.2mm thick (Fig. 15).

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Fig. 9. Sample G409084, Breccia-textured serpentinite, Plain light, FOV (field of view) ~90mm.

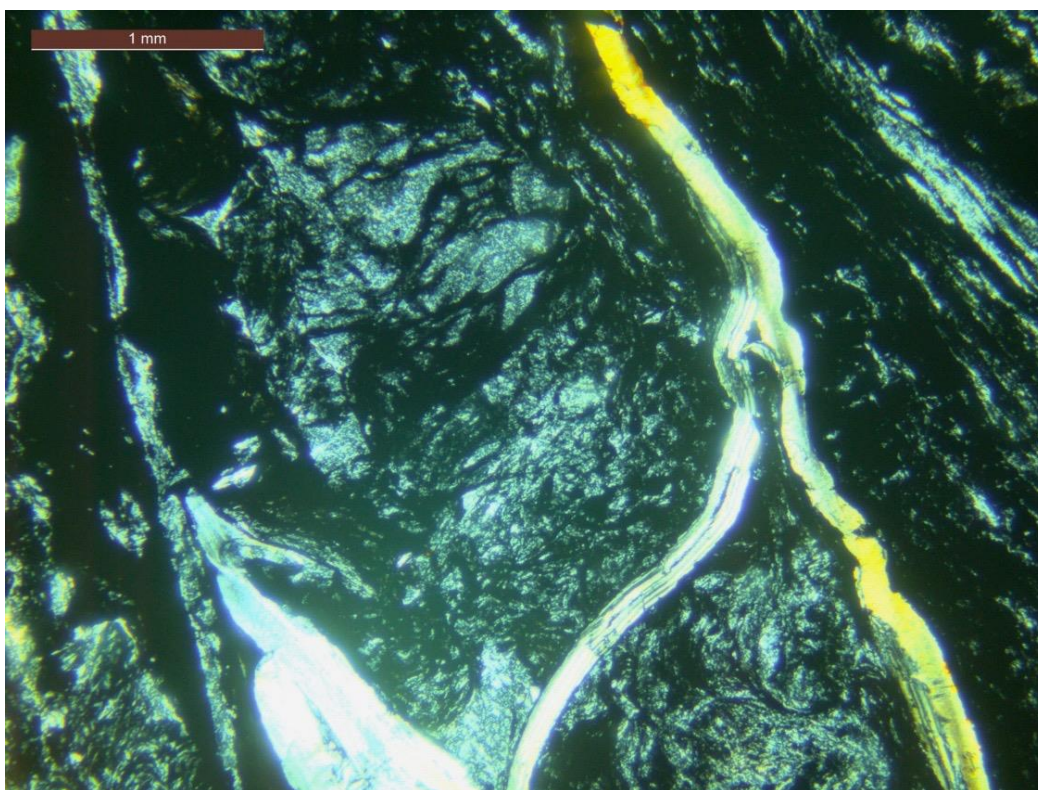


Fig. 10. Sample G409084, Polarised transmitted light, cross polars, showing highly brecciated and sheared opaque black serpentine and pale grey speckled serpentine, cut by veinlets of yellow –white pyroaurite(?).

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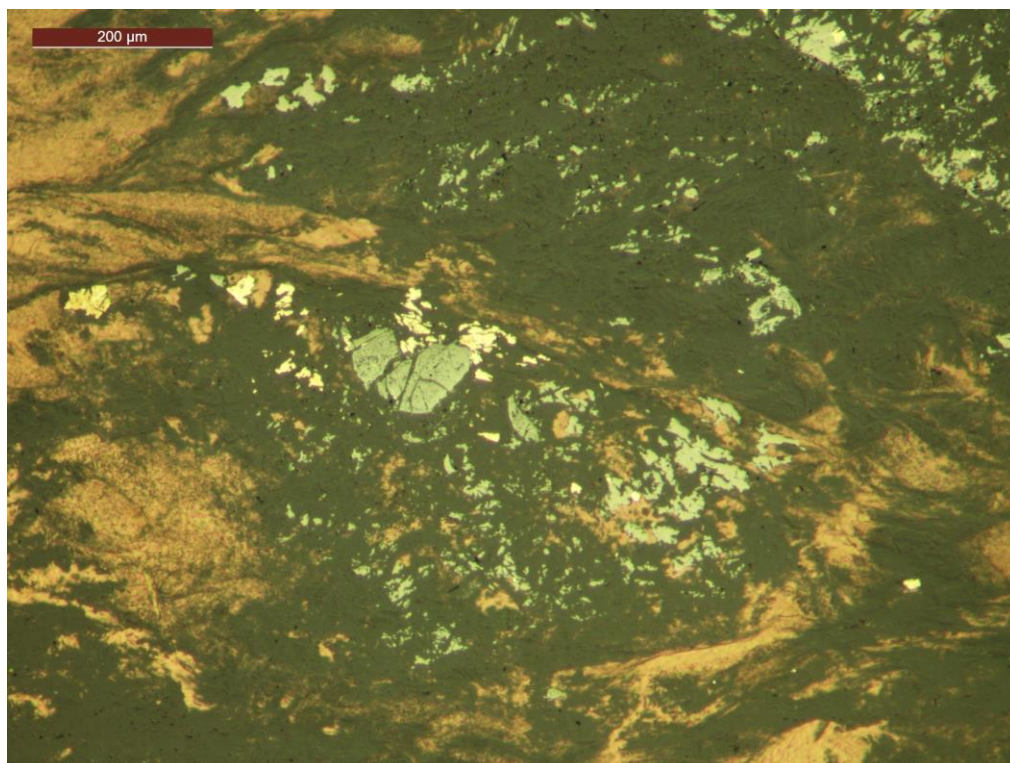


Fig. 11. Sample G409084, Polarised reflected and transmitted light, plain polars, showing highly brecciated chromite grains intensely altered to porous magnetite (bright grey) in black serpentine. The surrounding serpentine is clouded by fine grained magnetite. Pale brown zones are transparent magnetite-poor serpentine.

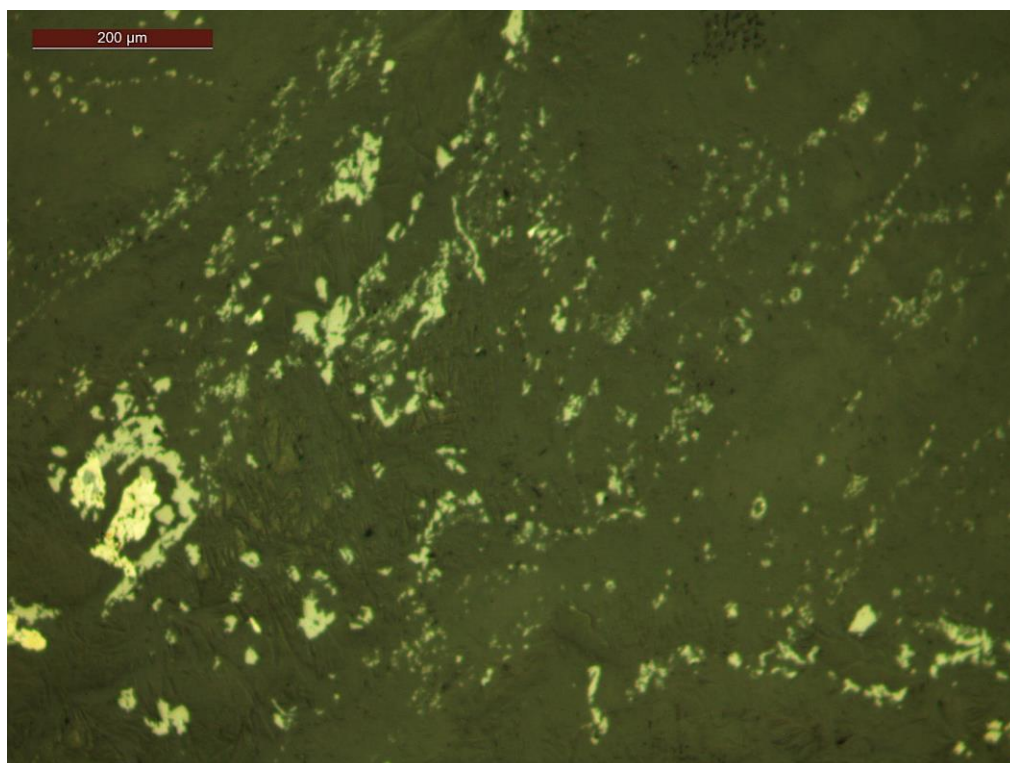


Fig. 12. Sample G409084, Polarised reflected light, plain polars, showing disseminated magnetite (pale grey) and pyrite (white), in black serpentine.

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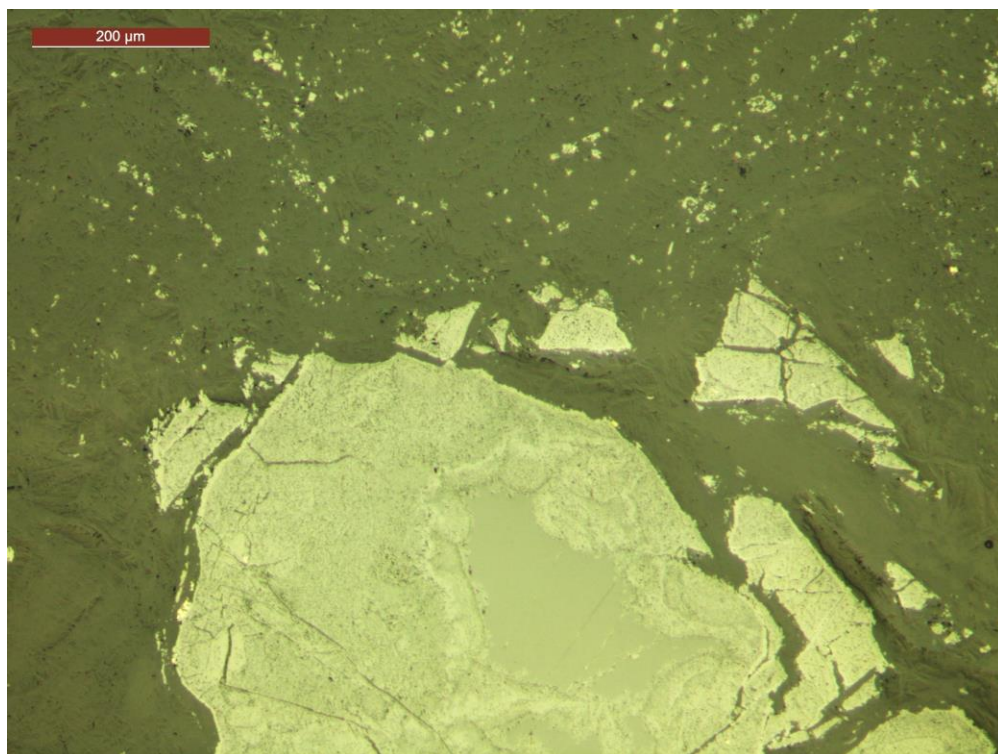


Fig. 13. Sample G409084, Polarised reflected light, plain polars, showing highly brecciated chromite (bright grey) grains largely altered to porous magnetite (white). The surrounding serpentine is clouded by fine grained magnetite.

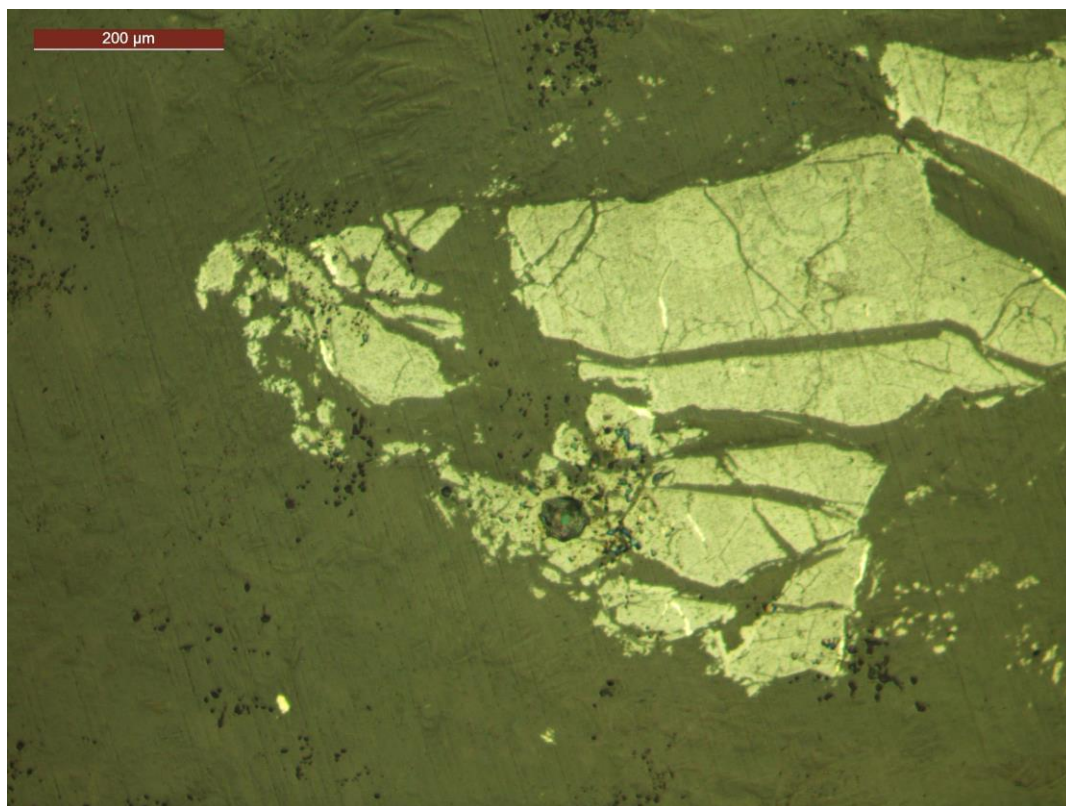


Fig. 14. Sample G409084, Polarised reflected light, plain polars, showing highly brecciated chromite grains with near-complete alteration to porous magnetite (medium-pale grey). Some trace pyrite (white) and possibly bright white awaruite in magnetite?

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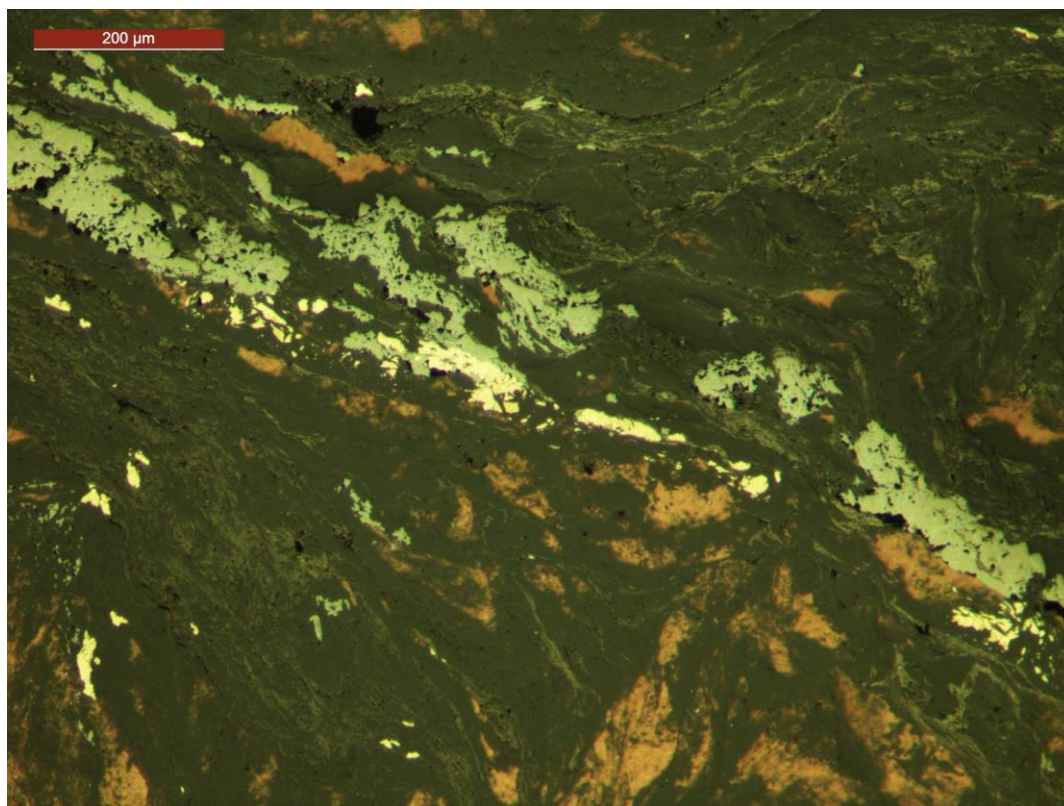


Fig. 15. Sample G409084, Polarised reflected and transmitted light, plain polars, showing a ragged vein of magnetite (grey) and pyrite (cream) in a serpentine matrix.

G409085 YHD0001/72.74-72.78

A fine grained brecciated serpentinite, mostly black with patches of white to grey serpentine or talc (Fig. 16).

In thin section the sample is more transparent than the previous two samples, with brown and colourless serpentine with some fine magnetite particles. (Fig. 17). There are fine to very fine veinlets of pyrite +/- magnetite, partly altered to limonite (Figs. 18 – 21). There are also some pyrite aggregates in the serpentine, to about 0.2mm diameter, possibly replacing pyrrhotite (Fig. 20)?

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Fig. 16. Sample G409085, Clastic-textured serpentinite, with veins. Plain light, FOV (field of view) ~90mm.

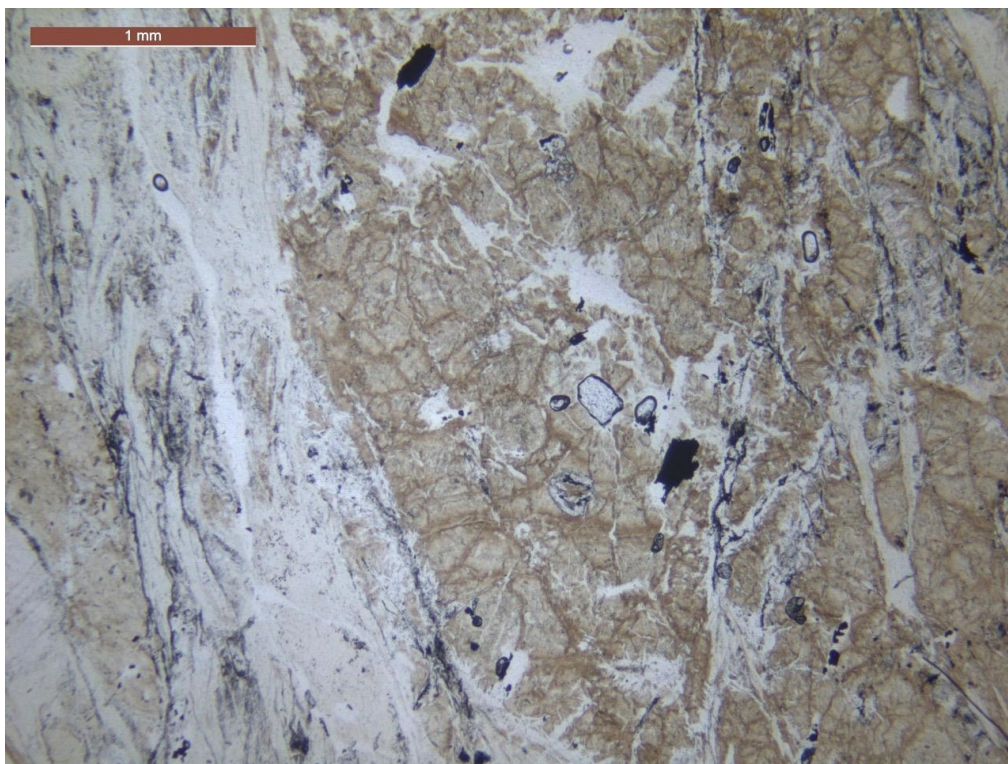


Fig. 17. Sample G409084, Polarised transmitted light, plain polars, showing highly brecciated brown, iron-rich serpentinite clasts in a matrix of iron-poor serpentine, with small black magnetite blebs.

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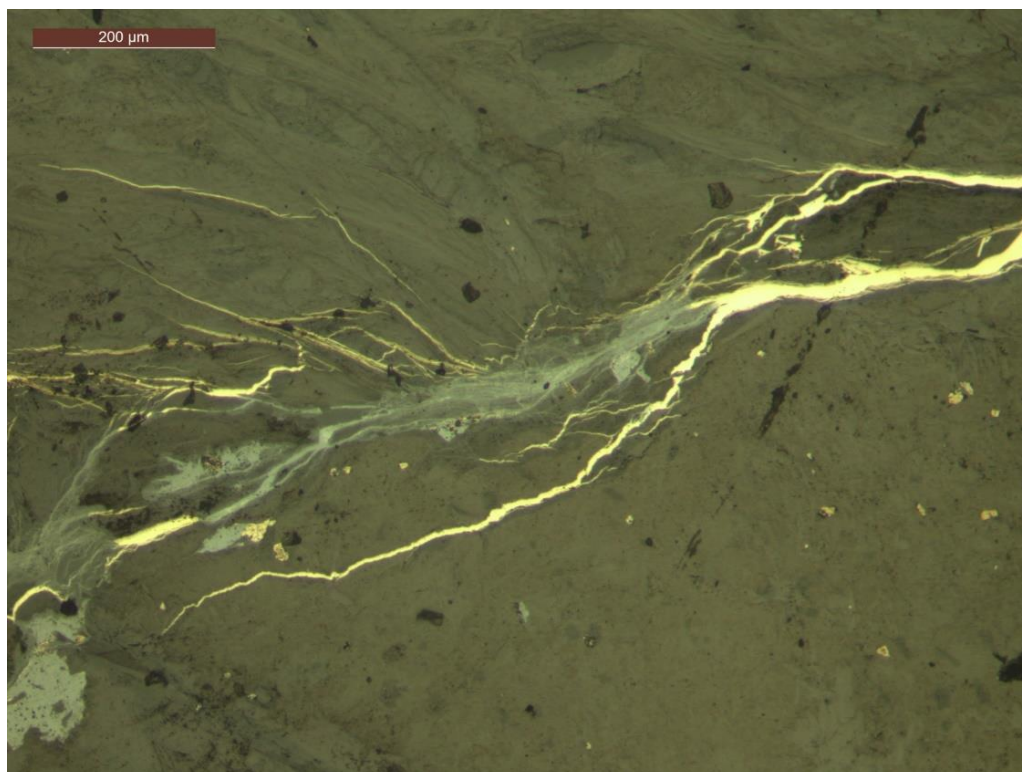


Fig. 18. Sample G409084, Polarised reflected light, plain polars, showing filamentous pyrite +/- pentlandite veinlets, partly altered to limonite (grey) and fine granular blebs of magnetite (grey).

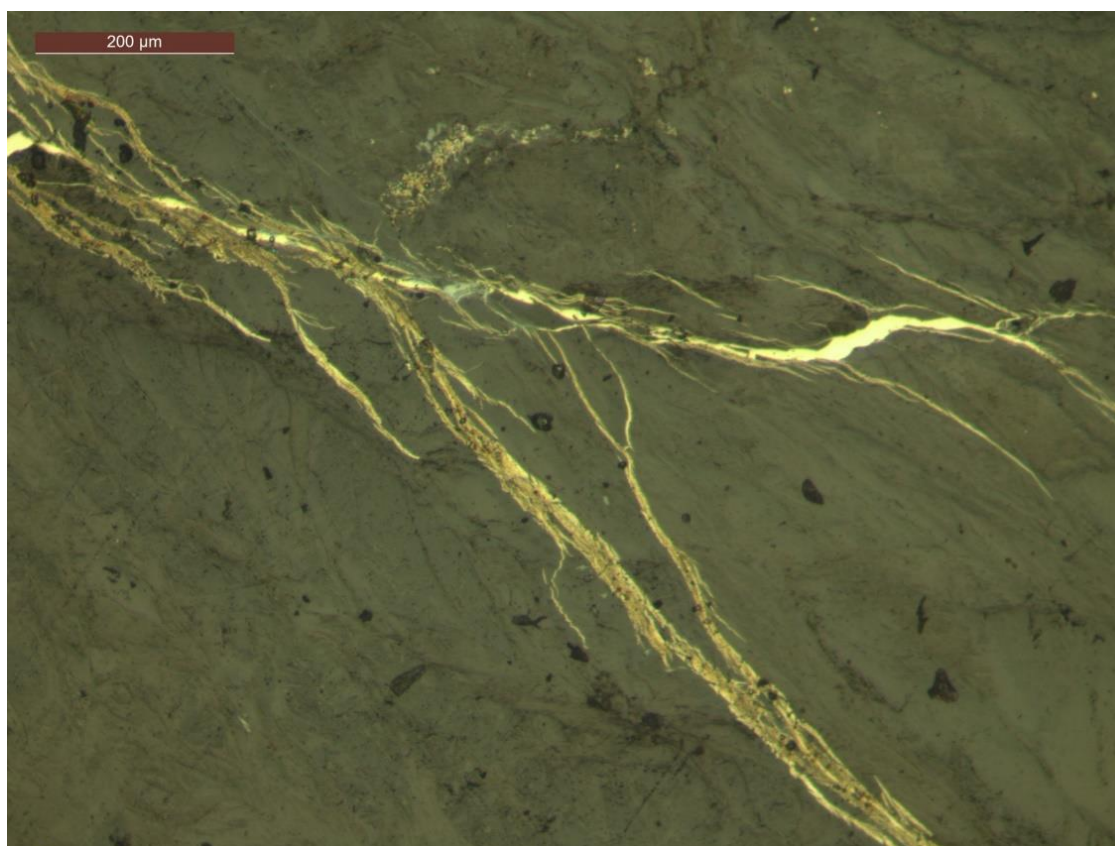


Fig. 19. Sample G409084, Polarised reflected light, plain polars, showing filamentous pyrite (cream) +/- pentlandite (yellow-brown) veinlets.

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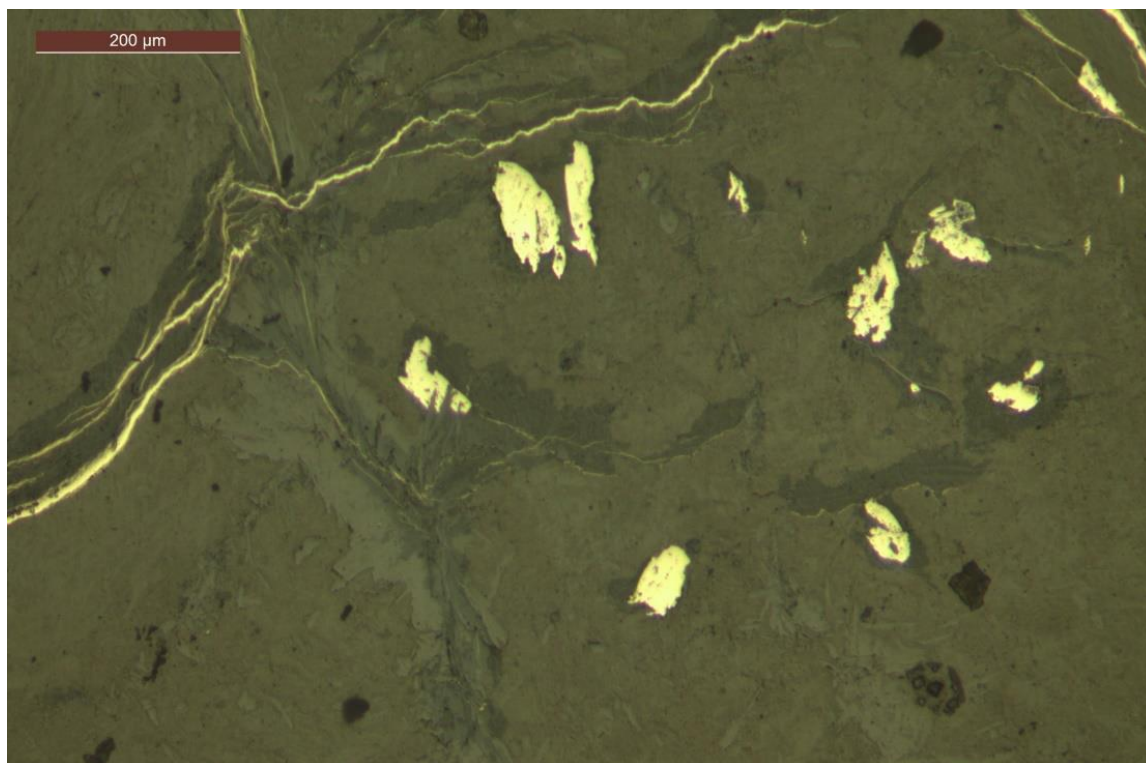


Fig. 20. Sample G409084, Polarised reflected light, plain polars, showing filamentous pyrite +/- pentlandite veinlets and granular blebs of pyrite (cream).

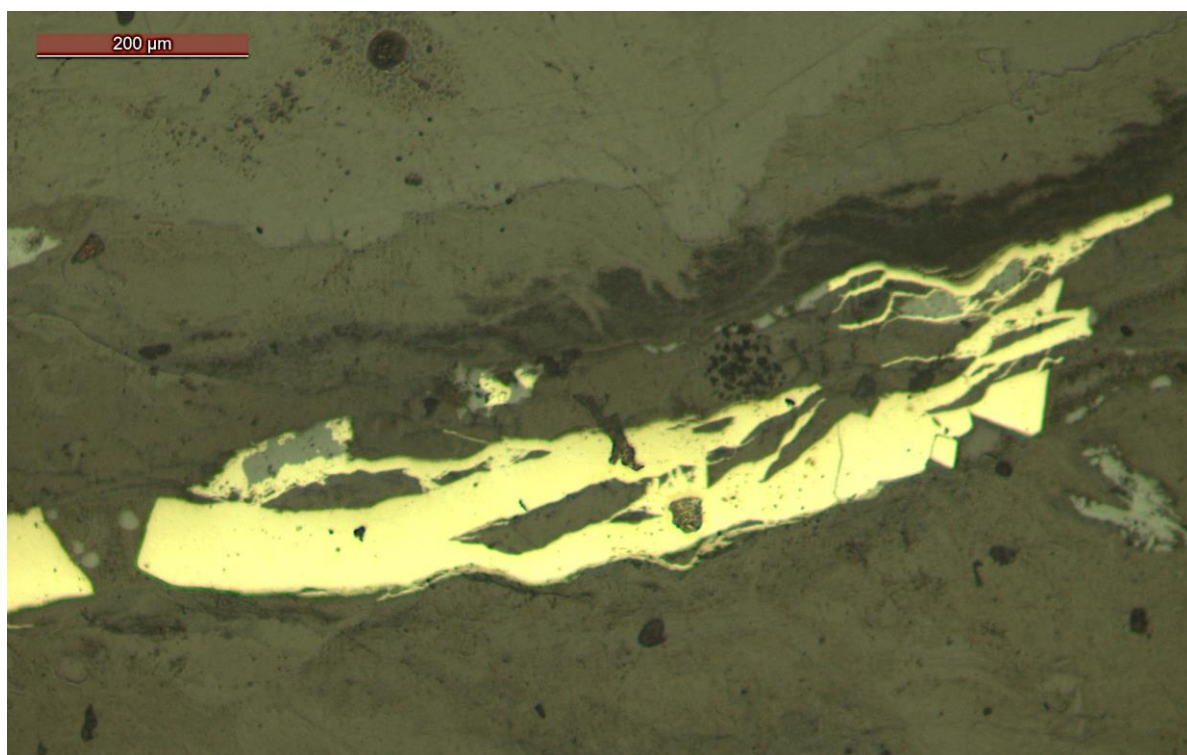


Fig. 21. Sample G409084, Polarised reflected light, plain polars, showing brecciated veins of pyrite (cream) partly replacing magnetite (grey).

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G409086 YHD0001/74.15-74.37

A fine grained brecciated serpentinite, mostly black with patches of white to green serpentine or talc (Fig. 22).

In thin section, the sample is more transparent than the previous two samples, with brown and colourless serpentine with some fine magnetite particles. (Fig. 23). There are also some sparse chromite grains in the serpentine, to about 0.5mm diameter, (Fig. 23) and magnetite grains to about 0.2mm, perhaps altered chromite (Fig. 24). There are aggregates of fine grained, radiating and skeletal pyrite with inclusions of bravoite (Ni-rich pyrite) showing cubic cleavage, to a few mm across (Figs. 23 – 24). The bravoite is replacing pentlandite, and the pyrite probably replacing pyrrhotite. This suggests some Ni-iron sulphide bodies may have been present in the ultramafic pre-shearing and alteration.



Fig. 22. Sample G409086, Clastic-textured serpentinite, Plain light, FOV (field of view) ~90mm.

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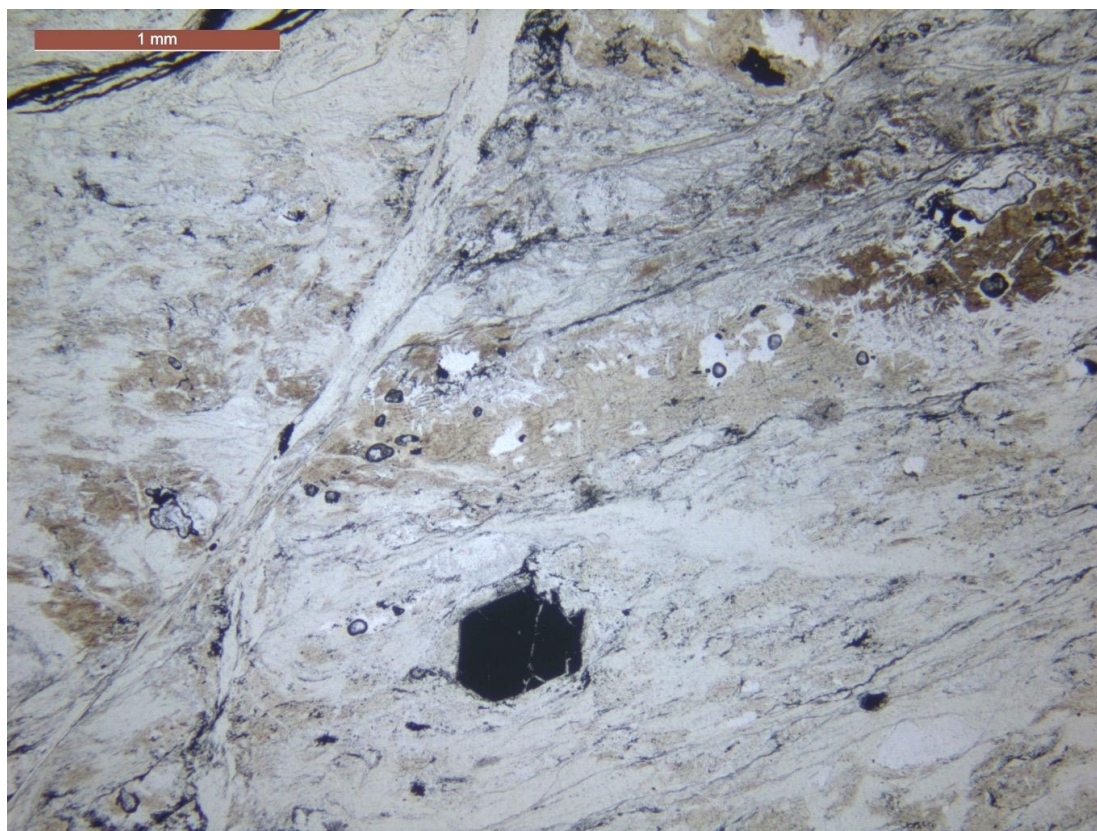


Fig. 23. Sample G409086, Polarised transmitted light, plain polars, showing a euhedral chromite grain (black) in variable brown to colourless serpentine.

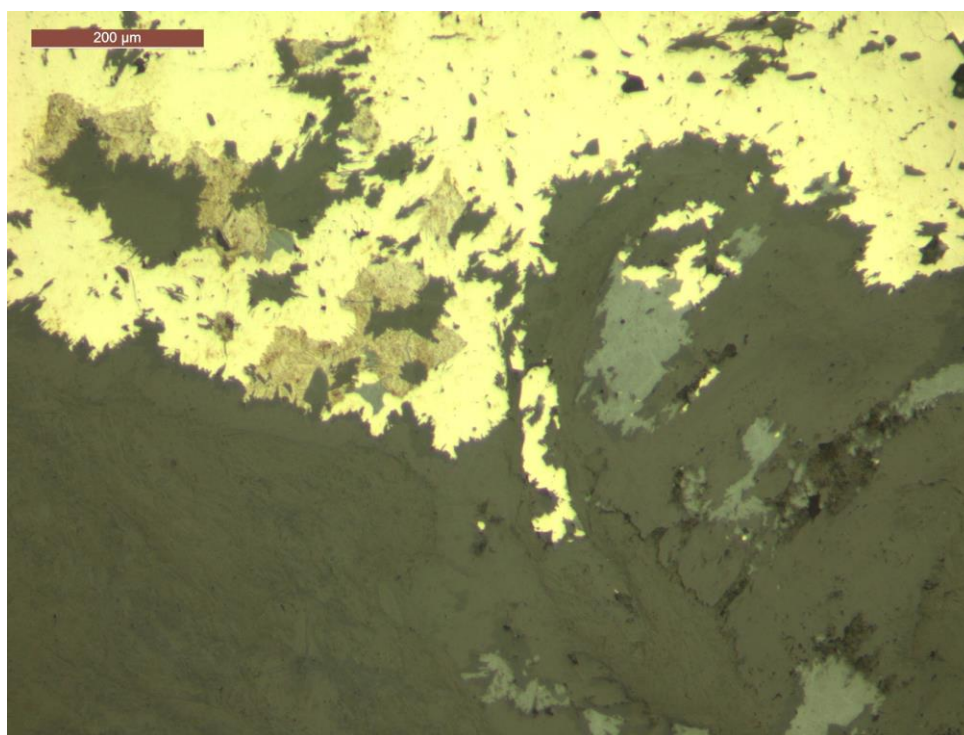


Fig. 24. Sample G409086, Polarised reflected light, plain polars, showing euhedral pentlandite grains (brown) in radiating aggregates of pyrite (cream), plus some bright grey magnetite.

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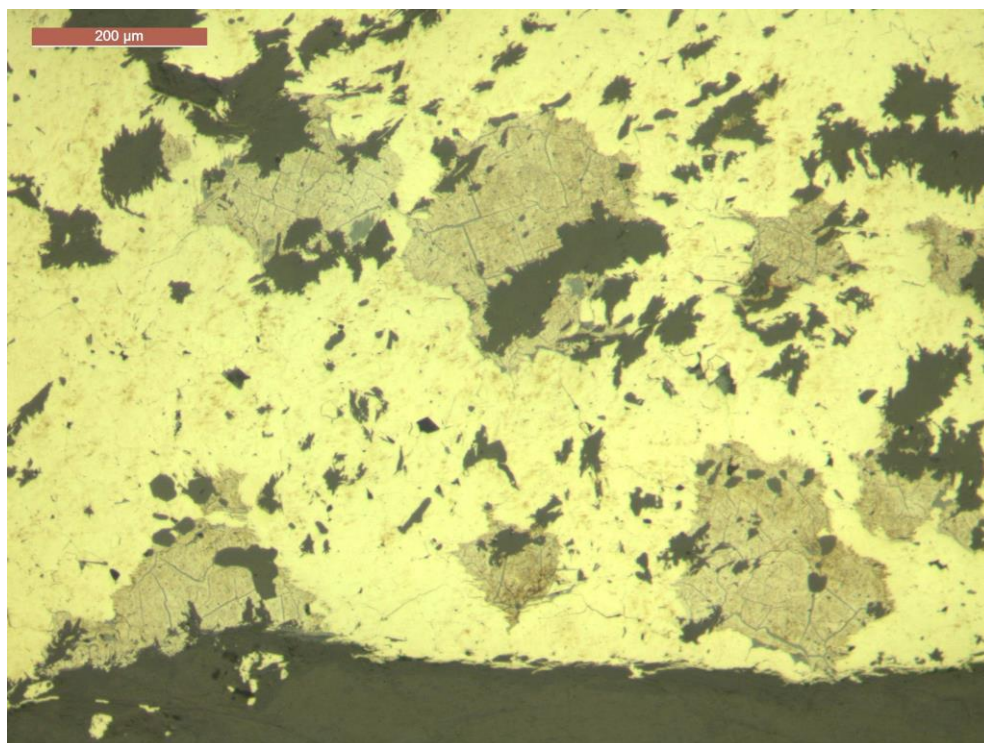


Fig. 24. Sample G409086, Polarised reflected light, plain polars, showing anhedronal pentlandite grains (brown), altering to grey magnetite along cleavages, in radiating aggregates of pyrite (cream).

G409087 YHD0001/83.58-83.78

A fine grained brecciated calc-silicate hornfels or skarn, mostly greenish grey with irregular, angular, white patches to about 10 mm (Fig. 25).

In thin section the sample consists mostly of fine grained aggregates of epidote-clinozoisite and greenish amphibole, between 10 - 50 microns in size (Fig. 26 - 28). There are irregular black stringers, mostly of rutile or anatase (no sulphides could be seen), possibly stylolites. Whiter patches are variably rich in albite, prehnite, chlorite, mica, clinozoisite, quartz and carbonates. It is a calc-silicate hornfels breccia, probably a replacement of a carbonate-altered mafic rock?

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Fig. 25. Sample G409087, Mottled pale grey-white hornfels, Plain light, FOV (field of view) ~90mm.

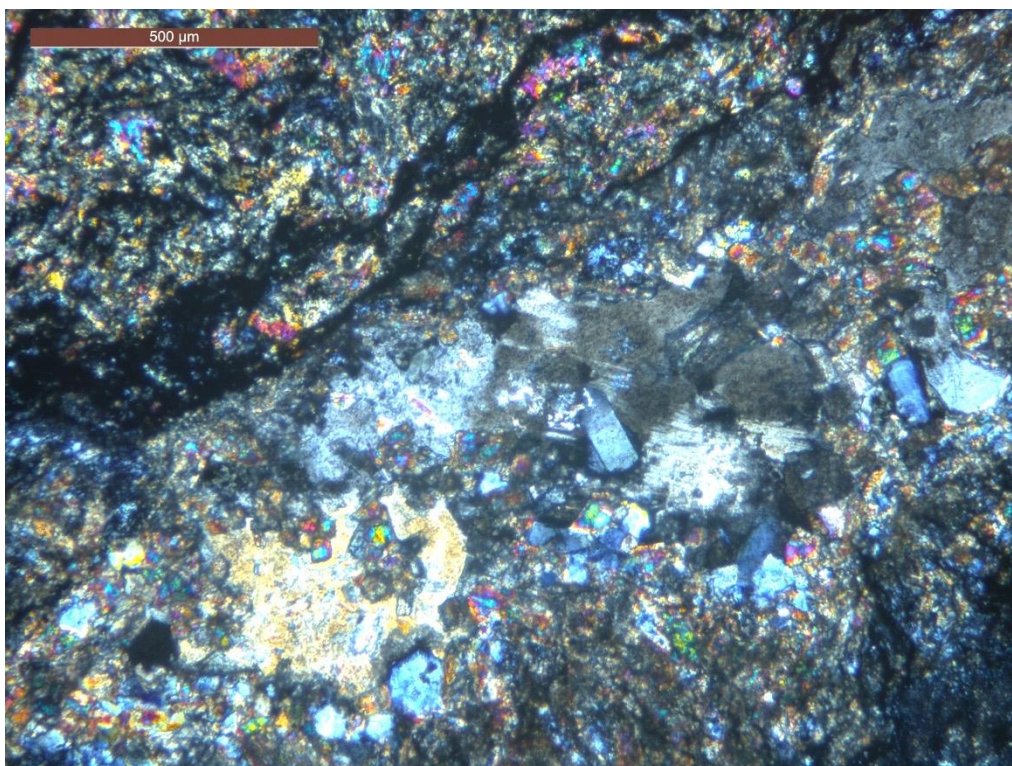


Fig. 26. Sample G409087, Polarised light, crossed polars, showing a fine grained epidote-amphibole hornfels with black rutile-rich bands, cut by an albite-epidote vein, with trace apatite.

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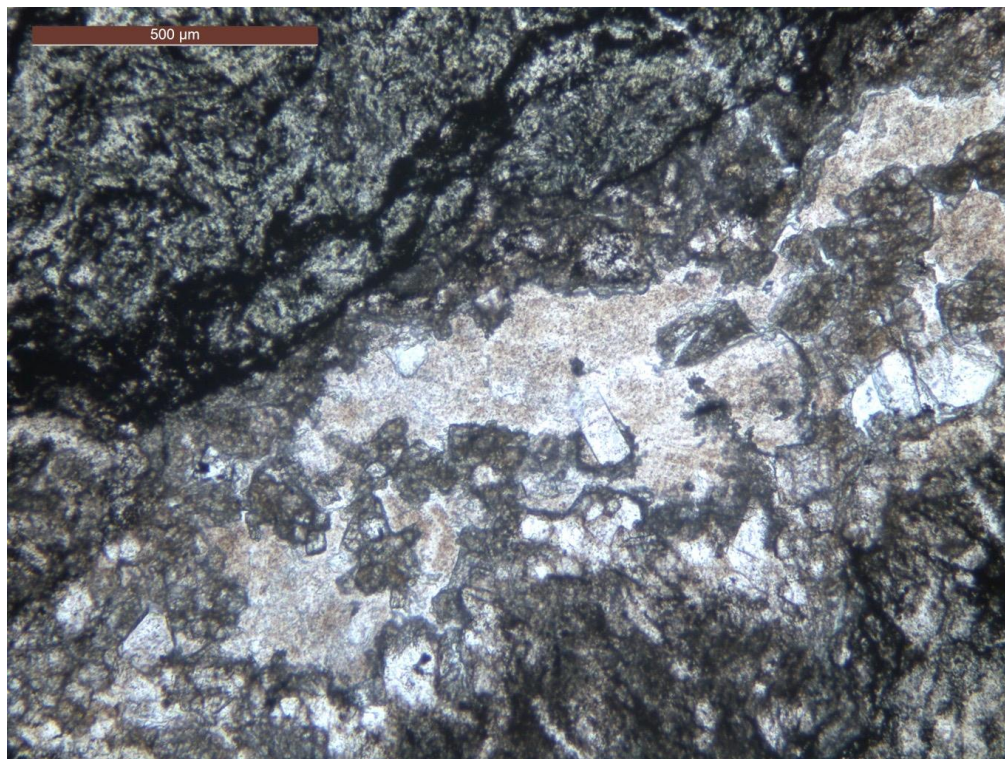


Fig. 27. Sample G409087, Polarised light, crossed polars, showing a fine grained epidote-amphibole hornfels with black rutile-rich bands, cut by an albite-epidote vein, with trace apatite.

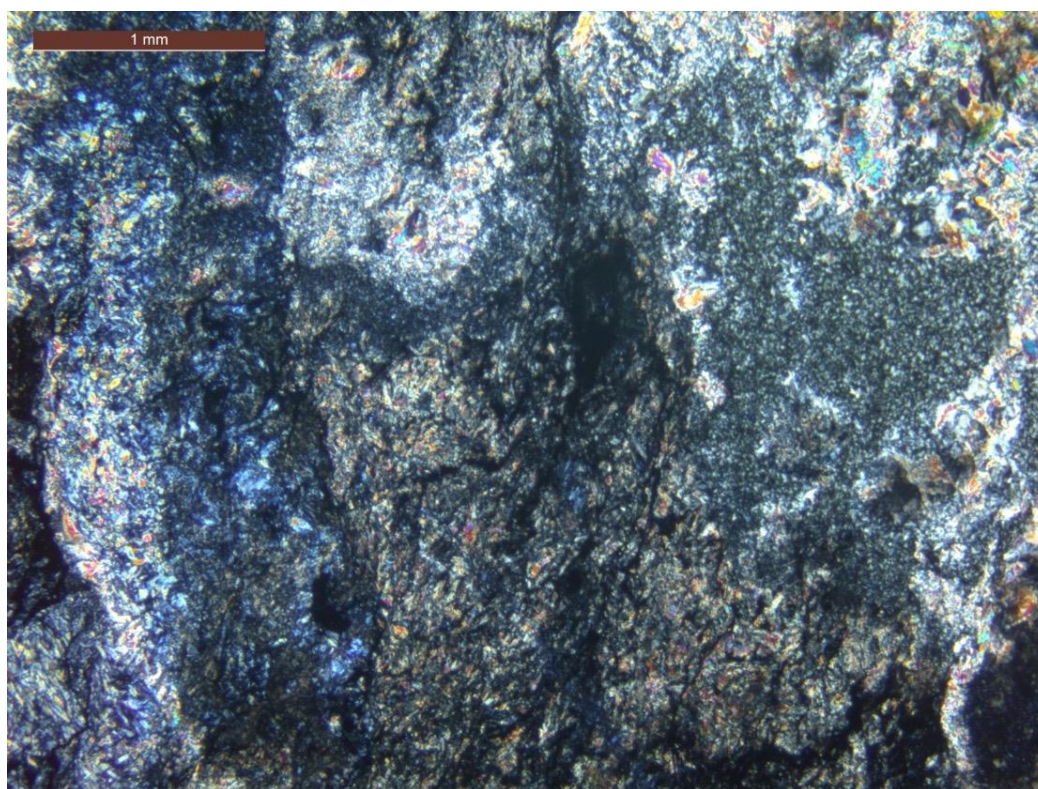


Fig. 28. Sample G409087, Polarised light, crossed polars, showing a complex breccia filled with chlorite (grey), prehnite (rainbow colours) and clinozoisite (blue-grey) in a fine grained epidote-amphibole hornfels.

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XRD ANALYSES

The samples were prepared, examined and analysed in the Mineral Resources Tasmania (MRT) laboratories, Rosny Park, Tasmania. They were run on a Rigaku Miniflex 600 X-Ray Diffractometer system: a 600W generator 150mm goniometer with a Cu tube; 40kV/15mA, sample spinner and a D/teX Ultra High Speed 1D Detector with Be window, -3° to 145° 2θ scanning range and 2° - 140° 2θ measuring range, with a scanning speed of 0.01 to 100 $^{\circ}$ /min, A graphite monochromator and a K β Ni- filter, The analysis software used is the PDXL2 using the ICCD database.

The results are shown in Appendix 1 and Tables 2 & 3.

G409083 is mostly Lizardite with trace clinopyroxene (diopside?), chlorite and garnet (probably hydrogrossular).

Table 2: XRD analysis, G409083

Phase name	Content(%)
Serpentine (Lizardite?)	96(3)
Clinopyroxene (Diopside?)	3(2)
Chlorite	<1
Garnet (Hydrogrossular?)	<1

G409087 is mostly amphibole (actinolite?), clinozoisite-epidote, prehnite and mica with trace chlorite and albite.

Table 3: XRD analysis, G409087

Phase name	Content(%)
Actinolite	39(2)
Clinozoisite	34(2)
Prehnite	17(4)
Illite	6(3)
Albite	2(1)
Chlorite	1(1)

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PXRF

The samples were analysed for major and trace elements using an Olympus Vanta M Series pXRF. The instrument uses a 4-Watt X-ray tube with application optimized anode material (rhodium Rh and tungsten W): 8-50 kV with a large area Silicon Drift Detector. The instrument uses the built-in Olympus Vanta analysis software version 3.12.34.

The results are shown in Appendix 2 and summarised in Table 4. The major elements are mostly Si, Al, Mg, Fe, mostly with significant S, Ti, Ca, Cr and Ni. Cu, Co and Au are below detection limits.

The blacker serpentines contain more Fe, Mn and Ti, but lower S, and similar Cr and Ni. The significance of this is uncertain, but probably due at least in part to hydrothermal alteration.

The hornfels is enriched in Al, Ca, Ti, P and Sr, but depleted in Cr and Ni, consistent with it being, prior to metamorphism, a carbonate-altered mafic rock.

Table 4: Summary of high pXRF results, (ppm)

Sample	G409083	G409083	G409083	G409084	G409084	G409085	G409085	G409086	G409086	G409087	G409087	G409087
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Mg Concentration		244167	255612	271133	269754	288438	273484	282733	272694	49305	56686	56686
Al Concentration		8770	8030	1666	2432	2615	2158	2587	2768	83652	80683	80683
Si Concentration		187830	202409	213521	215467	214425	208165	214256	207546	209039	193370	193370
P Concentration	306	51	23	42	42	39	42	306	51	495	510	510
S Concentration	758	952	486	1579	1206	1704	5370	7089	6720	466	500	500
Ca Concentration	833	0	0	0	0	0	0	0	0	114622	101226	101226
Ti Concentration	1140	1355	766	0	0	0	0	0	197	4512	5631	5631
Cr Concentration	899	929	1097	2270	1673	3155	1257	2021	1402	442	656	656
Mn Concentration	3137	1915	2711	2234	1970	784	522	683	579	1897	2074	2074
Fe Concentration	43077	33752	38638	41171	39988	26072	28949	33380	32515	61634	73254	73254
Ni Concentration	1239	1322	826	2133	1738	1205	1915	1316	1648	193	304	304
Zn Concentration	206	177	158	69	52	45	30	34	27	70	91	91
Sr Concentration	0	0	0	0	0	0	0	0	0	460	471	471

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DISCUSSION AND CONCLUSIONS

Samples G409083 - G409086, consist mostly of roughly sheared, brecciated and veined serpentine, mostly lizardite. Some early serpentine is black to brown and commonly effectively opaque in thin section, probably due to abundant submicroscopic magnetite and lesser sulphide inclusions. There are a few scattered chromite grains, highly brecciated and mostly altered to ferritchromite and magnetite. There are small blebs and veinlets of pyroaurite(?). Some magnetite and pyrite occurs in veins. There are some aggregates of fine grained pyrite with inclusions of bravoite after pentlandite, to a few mm across, which suggests some magmatic pyrrhotite-pentlandite rich sulphide segregations may have formed in the ultramafic, pre-shearing and alteration.

Sample G409087 consists mostly of fine grained aggregates of epidote-clinzoisite and greenish amphibole, plus patches variably rich in albite, prehnite, chlorite, mica, clinzoisite, quartz and carbonates. It is a calc-silicate hornfels breccia, with chemistry consistent with it being, prior to low grade metamorphism, an altered mafic rock.

R.S. Bottrill

L Unwin

MINERALOGIST/PETROLOGIST

TECHNICAL OFFICER

Disclaimers

While every care has been taken in the preparation of this report, no warranty is given as to the correctness of the information and no liability is accepted for any statement or opinion or for any error or omission. No reader should act or fail to act on the basis of any material contained herein. Readers should consult professional advisers. As a result, the Crown in Right of the State of Tasmania and its employees, contractors and agents expressly disclaim all and any liability (including all liability from or attributable to any negligent or wrongful act or omission) to any persons whatsoever in respect of anything done or omitted to be done by any such person in reliance whether in whole or in part upon any of the material in this report.

These analyses collected in the MRT laboratories, along with some other data on the samples submitted, may enter the MRT databases but every attempt will be made to ensure the data remains closed file and not be available externally, except at your request.

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Appendix 1: XRD Analyses: MRT Laboratory Report

Client: Accelerate Resources
Sample Source: Thomas Ck
MRT Job Number: LJN2018-130
Analysis: Approximate Mineralogy

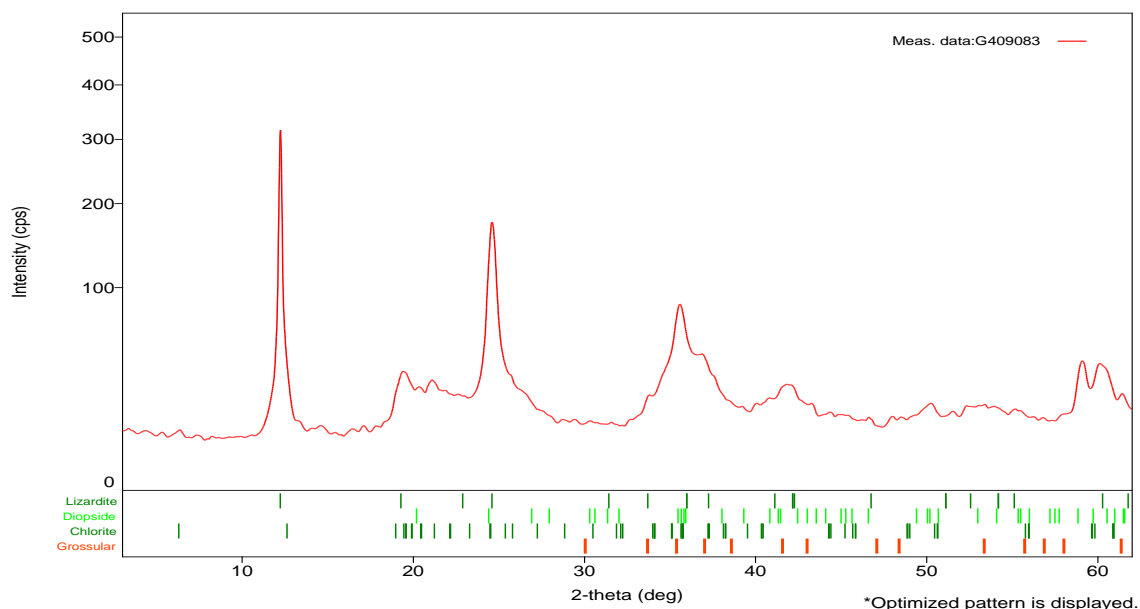
Method: X-Ray Diffraction
Analyst: L Unwin
Lab Manager: R Bottrill
Date: 10/7/2019

Analysis Results – G409083

Analysis date	2018/12/11 15:52:14	Measurement date	2018/12/10 14:00:55
Sample name	LJN2018-130	Operator	lunwin
File name	G409083.ras		

Quantitative analysis results

Phase name	Content(%)
Lizardite	96(3)
Diopside	3(3)
Chlorite	<1
Grossular	<1



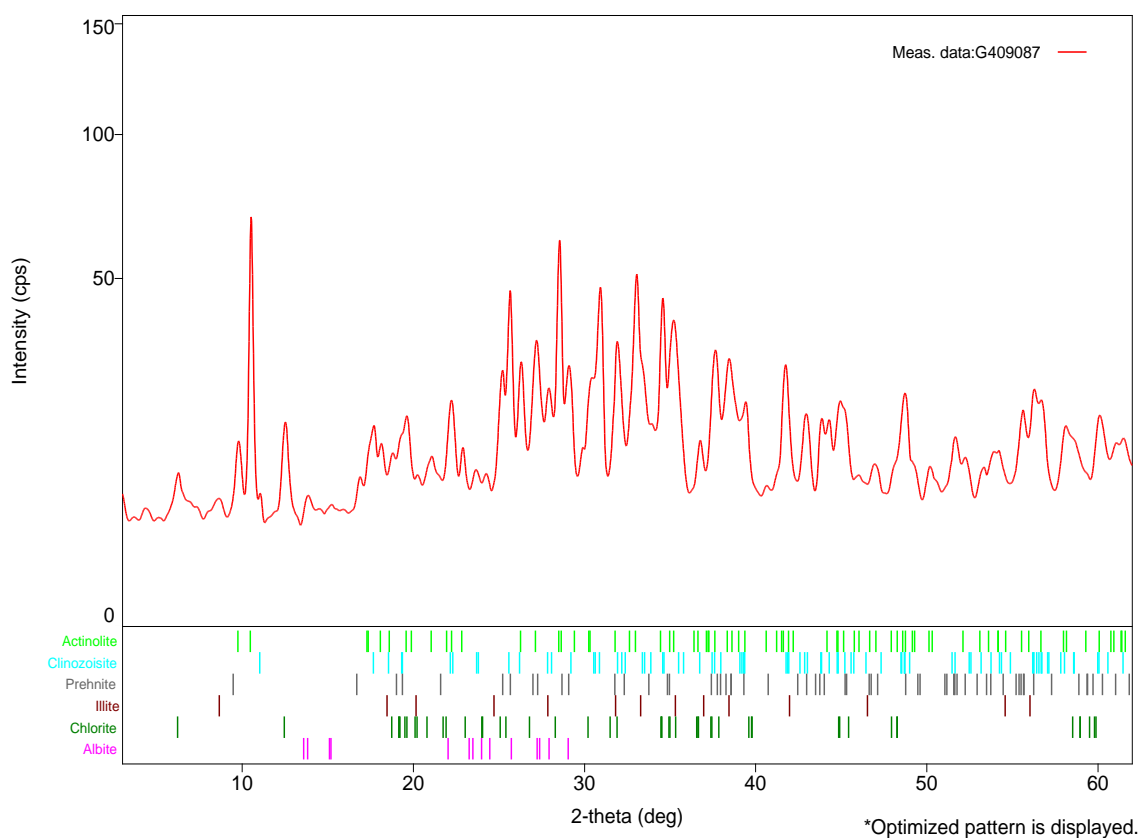
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Analysis Results – G409087

General Information

Analysis date 2019/07/10 12:40:58
Sample name LJN2018-130 Measurement date 2018/12/10 12:53:15
File name G409087.ras Operator lunwin

Phase name	Content(%)
Actinolite	39(2)
Clinozoisite	34(2)
Prehnite	17(4)
Illite	6(3)
Albite	2(1)
Chlorite	1(1)



Peak overlap (e.g. Clinopyroxene and K-Feldspar) may interfere with identifications and quantitative calculations.

Amorphous minerals and minerals present in trace amounts may not be detected.

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Appendix 2: MRT Laboratory Report: pXRF Analyses:

Client: Accelerate Resources

Sample Source: Thomas Ck

MRT Job Number: LJN2018-130

Analysis: Approximate Chemistry

Method: Portable X-Ray Diffraction

Analyst: R Bottrill

Date: 27/6/2019

Info	G409083	G409083	G409083	G409084	G409084	G409085	G409085
Reading #	12	1	2	3	4	5	6
Date	27/6/19	27/6/19	27/6/19	27/6/19	27/6/19	27/6/19	27/6/19
Time	16:18:22	16:02:05	16:02:55	16:03:52	16:04:46	16:05:50	16:06:39
Method Name	Soil	Geochem(2)	Geochem(2)	Geochem(2)	Geochem(2)	Geochem(2)	Geochem(2)
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Mg Concentration		244167	255612	271133	269754	288438	273484
Mg Error1s		2400	2291	2321	2297	2219	2260
Al Concentration		8770	8030	1666	2432	2615	2158
Al Error1s		296	282	237	241	238	236
Si Concentration		187830	202409	213521	215467	214425	208165
Si Error1s		827	844	895	892	864	854
P Compound	PO4						
P Compound Level	-477.307						
P Compound Error	937.31						
P Concentration	-156	0	95	0	0	0	0
P Error1s	306	51	23	42	42	39	42
S Compound	SO4						
S Compound Level	2269.52						
S Compound Error	230.617						
S Concentration	758	952	486	1579	1206	1704	5370
S Error1s	77	24	20	27	25	26	41
K Concentration	58	0	0	0	0	0	0
K Error1s	20	98	87	83	83	78	82
Ca Concentration	833	0	0	0	0	0	0
Ca Error1s	17	84	79	69	68	74	71
Ti Concentration	1140	1355	766	0	0	0	0
Ti Error1s	12	78	69	86	84	84	88
V Concentration	16	0	0	0	0	0	0
V Error1s	1	13	12	12	12	11	11
Cr Concentration	899	929	1097	2270	1673	3155	1257

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Info	G409083	G409083	G409083	G409084	G409084	G409085	G409085
Cr Error1s	7	26	27	38	33	44	29
Mn Concentration	3137	1915	2711	2234	1970	784	522
Mn Error1s	16	33	38	36	33	25	20
Fe Concentration	43077	33752	38638	41171	39988	26072	28949
Fe Error1s	166	165	177	190	183	127	139
Co Concentration	-232	0	0	0	0	0	0
Co Error1s	24	32	34	35	35	27	30
Ni Concentration	1239	1322	826	2133	1738	1205	1915
Ni Error1s	11	16	12	21	18	14	19
Cu Concentration	2	0	0	0	18	0	0
Cu Error1s	2	6	5	7	5	6	7
Zn Concentration	206	177	158	69	52	45	30
Zn Error1s	3	4	4	3	3	2	2
As Concentration	5	17	9	28	116	0	0
As Error1s	1	1	1	1	2	1	2
Se Concentration	0	0	0	0	0	0	0
Se Error1s	0	1	1	1	1	1	1
Rb Concentration	0	0	0	0	0	0	0
Rb Error1s	0	1	1	1	1	1	1
Sr Concentration	0	0	0	0	0	0	0
Sr Error1s	1	1	1	1	1	1	1
Y Concentration	4	5	3	0	0	2	0
Y Error1s	1	1	1	1	1	1	1
Zr Concentration	22	28	17	0	0	0	0
Zr Error1s	1	1	1	2	2	2	2
Nb Concentration	1	0	0	0	0	0	0
Nb Error1s	1	2	2	2	2	2	2
Mo Concentration	-2	0	0	0	0	0	0
Mo Error1s	2	3	2	2	2	3	3
Ag Concentration	1	0	0	0	0	0	0
Ag Error1s	1	10	10	10	10	10	10
Cd Concentration	0	0	0	0	0	0	0
Cd Error1s	2	12	11	11	11	11	11
Sn Concentration	3	0	0	0	0	0	0
Sn Error1s	4	17	17	17	17	17	17
Sb Concentration	3	0	0	0	0	0	0
Sb Error1s	4	22	21	21	21	22	22
Ba Concentration	5						
Ba Error1s	12						
La Concentration	27						

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Info	G409083	G409083	G409083	G409084	G409084	G409085	G409085
La Error1s	25						
Ce Concentration	-21						
Ce Error1s	47						
Pr Concentration	26						
Pr Error1s	63						
Nd Concentration	-49						
Nd Error1s	159						
Ta Concentration	9						
Ta Error1s	9						
W Concentration	4	0	0	0	0	0	0
W Error1s	4	7	7	6	6	6	6
Au Concentration	0						
Au Error1s	1						
Hg Concentration	-2	0	0	0	0	0	0
Hg Error1s	1	5	5	5	5	4	5
Pb Concentration	2	0	0	0	0	0	12
Pb Error1s	1	2	2	2	2	2	2
Bi Concentration	2	0	0	0	0	0	0
Bi Error1s	2	6	6	6	6	6	6
Th Concentration	2	0	0	0	0	0	0
Th Error1s	2	5	5	5	5	5	5
U Concentration	-4	0	0	0	0	0	0
U Error1s	2	3	3	3	3	3	3
LE Concentration		518781	489143	464197	465584	461555	478138
LE Error1s		2013	1896	1893	1872	1804	1856

Info	G409086	G409086	G409087	G409087	G409087
Reading #	7	8	9	10	11
Date	27/6/19	27/6/19	27/6/19	27/6/19	27/6/19
Time	16:07:45	16:08:28	16:09:39	16:10:28	16:12:20
Method Name	Geochem(2)	Geochem(2)	Geochem(2)	Geochem(2)	Geochem(2)
Units	PPM	PPM	PPM	PPM	PPM
Mg Concentration	282733	272694	49305	56686	56686
Mg Error1s	2244	2300	1917	2002	2002
Al Concentration	2587	2768	83652	80683	80683
Al Error1s	242	246	636	638	638
Si Concentration	214256	207546	209039	193370	193370
Si Error1s	872	868	841	816	816

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Info	G409086	G409086	G409087	G409087	G409087
P Concentration	0	0	495	510	510
P Error1s	41	44	46	45	45
S Concentration	7089	6720	466	500	500
S Error1s	49	48	25	25	25
K Concentration	0	0	92	0	0
K Error1s	79	85	30	101	101
Ca Concentration	0	0	114622	101226	101226
Ca Error1s	64	69	430	396	396
Ti Concentration	0	197	4512	5631	5631
Ti Error1s	86	63	135	142	142
V Concentration	0	0	93	58	58
V Error1s	12	12	13	13	13
Cr Concentration	2021	1402	442	656	656
Cr Error1s	36	31	27	29	29
Mn Concentration	683	579	1897	2074	2074
Mn Error1s	23	22	39	41	41
Fe Concentration	33380	32515	61634	73254	73254
Fe Error1s	156	156	271	321	321
Co Concentration	0	0	0	0	0
Co Error1s	32	32	50	52	52
Ni Concentration	1316	1648	193	304	304
Ni Error1s	15	18	8	10	10
Cu Concentration	0	0	0	16	16
Cu Error1s	6	7	5	4	4
Zn Concentration	34	27	70	91	91
Zn Error1s	2	2	4	4	4
As Concentration	0	0	5	0	0
As Error1s	1	1	1	2	2
Se Concentration	0	0	0	0	0
Se Error1s	1	1	1	1	1
Rb Concentration	0	0	4	0	0
Rb Error1s	1	1	1	1	1
Sr Concentration	0	0	460	471	471
Sr Error1s	1	1	4	4	4
Y Concentration	0	0	25	35	35
Y Error1s	1	1	1	1	1
Zr Concentration	0	0	41	50	50
Zr Error1s	2	2	2	2	2
Nb Concentration	0	0	7	6	6
Nb Error1s	2	2	1	1	1

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Info	G409086	G409086	G409087	G409087	G409087
Mo Concentration	0	0	0	0	0
Mo Error1s	3	3	3	3	3
Ag Concentration	0	0	0	0	0
Ag Error1s	10	10	12	11	11
Cd Concentration	0	0	0	0	0
Cd Error1s	11	12	13	12	12
Sn Concentration	0	0	0	0	0
Sn Error1s	17	18	20	19	19
Sb Concentration	0	0	0	0	0
Sb Error1s	22	22	25	24	24
W Concentration	0	0	0	0	0
W Error1s	6	6	8	8	8
Hg Concentration	0	0	10	0	0
Hg Error1s	4	4	3	6	6
Pb Concentration	0	0	0	0	0
Pb Error1s	2	2	3	3	3
Bi Concentration	0	0	0	0	0
Bi Error1s	6	6	8	7	7
Th Concentration	0	0	0	14	14
Th Error1s	5	5	6	5	5
U Concentration	0	0	0	0	0
U Error1s	3	3	4	4	4
LE Concentration	455902	473905	472939	484367	484367
LE Error1s	1820	1888	1858	1922	1922