

RESEARCH SAMPLE LOG

017033

PROJECT: _____

STATION: 6062

DDH: _____

DEPTH: _____

HAND SAMPLE: *Altered ultramafic - pale green yellow color - opaque spots
Scattered throughout*

THIN SECTION:

POLISHED SECTION: _____

POLISHED THIN SECTION: _____

ANALYSIS: Au < 5 ppb

PROBE: _____

XRD: _____

ISOTOPE: _____

FOSSIL: _____

STAINED: _____

OTHER: _____

COMMENTS:

THIN SECTION LOG

PROJECT: _____
STATION: 6062
DDH: _____
UNIT: _____

DESCRIBED BY: LCP
DATE: Dec 5 '79

HAND SAMPLE: *Altered ultramafic*

PURPOSE: *Analysis for Au (< 5 ppb)*

	EST.	POINT CT.
<i>Opaque</i>	<i>2</i>	
<i>Carbonate</i>	<i>73</i>	
<i>Quartz</i>	<i>25</i>	

COMMENTS:

Evenly scattered subhedral to anhedral opaque. - very irregular margins
Splotchy coarse to fine-grained carbonate is dominant part of T.S.
Irregular aggregates of fine-grained interlocking qtz
Qtz as elongate subhedral grains along veins-fractures. - Show plastic deformation and recrystallization textures
Vein/fractures extend along more than 1 direction
Vein/fractures also contains carbonate

RESEARCH SAMPLE LOG

PROJECT: _____

STATION: 6214

DDH: _____

DEPTH: _____

HAND SAMPLE:

Altered ultramafic. Pale green color.

Pseudomorphs of euhedral mineral

THIN SECTION:

POLISHED SECTION: _____

POLISHED THIN SECTION: _____

ANALYSIS: Au < 5 ppb

PROBE: _____

XRD: _____

ISOTOPE: _____

FOSSIL: _____

STAINED: _____

OTHER: _____

COMMENTS:

THIN SECTION LOG

PROJECT: _____

STATION: 6214

DESCRIBED BY: LCP

DDH: _____

DEPTH: _____

DATE: Dec 5, '79

UNIT: _____

HAND SAMPLE: *Altered ultramafic*

PURPOSE: *Analyze for Au (< 5 ppb)*

	EST.	POINT CT.
<i>Clinopyroxene</i>	<i>20</i>	
<i>Serpentine</i>	<i>10</i>	
<i>Chlorite ??</i>	<i>70</i>	
<i>(Brucite + Periclase ??)</i>		

COMMENTS:

Rounded grains of clinopyroxene in altered matrix of serpentine + chlorite (?) - Primary pyroxenes are coarse-grained
Classified as clinopyroxene because -
 colors go up to 1st order red
 abundant thin lamellae (exsolution) with 1st order grey colors
 clear in plane light
 optic figure is +
Pyroxenes have altered inclusions (maybe originally olivine?)
Matrix is fine grained brown (interference colors) and platy grey (interference colors)
 minerals In plane light they are clear - possibly altered olivine
 only minor serpentine (low relief)

RESEARCH SAMPLE LOG

PROJECT: _____

STATION: 6308

DDH: _____

DEPTH: _____

HAND SAMPLE: *Altered ultramafic*

THIN SECTION:

POLISHED SECTION: _____

POLISHED THIN SECTION: _____

ANALYSIS: *Au* *5 ppb*

PROBE: _____

XRD: _____

ISOTOPE: _____

FOSSIL: _____

STAINED: _____

OTHER: _____

COMMENTS: _____

THIN SECTION LOG

PROJECT: _____

STATION: 6308

DESCRIBED BY: LCP

DDH: _____

DEPTH: _____

DATE: Dec 5 '79

UNIT: _____

HAND SAMPLE: *Altered ultramafic*

PURPOSE: *analysis for Au (5 ppb)*

	EST.	POINT CT.
<i>Opagues</i>	<i>5</i>	
<i>Carbonate</i>	<i>35</i>	
<i>Serpentine ?</i>	<i>60</i>	

COMMENTS:

Scattered euhedral opagues

Carbonate matrix - carbonate range from fine grained to coarse grained.

Coarse-grained occurs as veins & pods in fine-grained.

Matrix also contains fine grained fibrous mineral - randomly oriented.

Serpentine ? { *clear in plane light*
low 1st order greys in crossed nicols
length slow
too small to see interference figures

RESEARCH SAMPLE LOG

PROJECT: _____

STATION: 6314

DDH: _____

DEPTH: _____

HAND SAMPLE: *Altered ultramafic*

THIN SECTION:

POLISHED SECTION: _____

POLISHED THIN SECTION: _____

ANALYSIS: Au 5 ppb

PROBE: _____

XRD: _____

ISOTOPE: _____

FOSSIL: _____

STAINED: _____

OTHER: _____

COMMENTS:

THIN SECTION LOG

PROJECT: _____
STATION: 6314
DDH: _____
UNIT: _____

DESCRIBED BY: LCP
DATE: Dec 6, '79

HAND SAMPLE: *Altered ultramafic*

PURPOSE: *analysis for Au (5 ppb)*

	EST.	POINT CT.
<i>Opaque</i>	<i>1</i>	
<i>Carbonate</i>	<i>79</i>	
<i>Quartz</i>	<i>20</i>	

COMMENTS:

Scattered euhedral to subhedral opaque.
Matrix of splintery carbonate.
Also as aggregates of tiny interlocking grains in carbonate matrix. Also occurs
commonly as similar texture but forming vein/fracture fillings.
Large fracture filled by coarse carbonate with minor coarse quartz.

RESEARCH SAMPLE LOG

PROJECT: _____

STATION: 6336

DDH: _____

DEPTH: _____

HAND SAMPLE:

*Altered ultramafic
gtc-carbonate alteration with malposite*

THIN SECTION:

POLISHED SECTION: _____

POLISHED THIN SECTION: _____

ANALYSIS: Au < 5 ppb

PROBE: _____

XRD: _____

ISOTOPE: _____

FOSSIL: _____

STAINED: _____

OTHER: _____

COMMENTS:

THIN SECTION LOG

PROJECT: _____

STATION: 6336

DESCRIBED BY: LCP

DDH: _____

DEPTH: _____

DATE: Dec 6, '79

UNIT: _____

HAND SAMPLE: *Altered ultramafic mariposite present*

PURPOSE: *analysis for Au (< 5 ppb)*

*Mariposite is pale blue green
in plane light.*

	EST.	POINT CT.
<i>Opaque</i>	<i>tr</i>	
<i>Carbonate</i>	<i>45</i>	
<i>Quartz</i>	<i>50</i>	
<i>Mariposite</i>	<i>5</i>	

COMMENTS:

Only very minor opaque

*Mariposite as "network" of fine-grained, sericitic material occurring primarily
within quartz aggregates*

*Quartz as aggregate of radiating rosettes. Interference colors are 1st order
grey. Clear in plane light, length slow, parallel extinction. Looks partly like deformation texture*

Don't see abundant magnetite dust.

Carbonate as irregular, oolitic, matrix

One vein coated by carbonate with ptz occurrences (walls)

RESEARCH SAMPLE LOG

PROJECT: _____

STATION: 6338

DDH: _____

DEPTH: _____

HAND SAMPLE: *Altered ultramafic
Qtz-carbonate with malposite*

THIN SECTION:

POLISHED SECTION: _____

POLISHED THIN SECTION: _____

ANALYSIS: *Au* *40 ppb*

PROBE: _____

XRD: _____

ISOTOPE: _____

FOSSIL: _____

STAINED: _____

OTHER: _____

COMMENTS:

THIN SECTION LOG

PROJECT: _____

STATION: 6338

DESCRIBED BY: LCP

DDH: _____

DEPTH: _____

DATE: Dec 6 '79

UNIT: _____

HAND SAMPLE: *Altered ultramafic Qtz carbonate with mariposite*

PURPOSE: *analysis for Au (40 ppb)*

	EST.	POINT CT.
<i>Opague</i>	<i>3</i>	
<i>Quartz</i>	<i>50</i>	
<i>Carbonate</i>	<i>45</i>	
<i>Mariposite</i>	<i>2</i>	

COMMENTS:

Coarse grained Qtz & carbonate with minor sericitic mariposite. Qtz is highly strained - good evidence of plastic deformation. T.S. shows multiple fracturing and veining. Brecciated appearance.

Qtz has scattering of opaque lens

larger opaques are extensively broken - fractured