



**Allegiance Metals Drill Log**

Project	BHID	From	To	Stratigraph	Rock Type	Alteration	Colour	Visual S%	L. Cont.	Struct	BCA	Description
Pontiac	P002	0	1.3		LOSS							No Core recovery.
Pontiac	P002	1.3	13	Q	CLAY		A3					Grey, puggy clay. Transported Clay or weathering of transported felspathic sand?
Pontiac	P002	13	19	Q	CONG		A3					Transported unconsolidated coarse conglomerate. Clasts of granite, shale, qtz, greywacke. Very poor core recovery.
Pontiac	P002	19	50.5	Ccc	GWAC	BiCh	A4	0.00	Sp			Massive, graded medium grained grey feld-qtz-lithic greywacke and interbedded siltstone. Minor biotite alteration. Chloritic joints. Jointed and broken.
Pontiac	P002	50.5	110	Ccc	GWAC	ChMt	A4	0.05	Br	Bd	75	Massive, graded medium grained grey feld-qtz-lithic greywacke and interbedded siltstone. 2-5% qtz-magnetite veins with chloritic selvedge. Chl altered joints. Minor disseminated magnetite. Qtz-magnetite veins 1-20mm in width. Very minor pyrrhotite, chalcopyrite-pyrite mineralisation associated with fine magnetite veins.
Pontiac	P002	110	115.1	Ccc	SSLT	ChMt	A4	0.00	Ir			Massive dark grey siltstone. 2-5% magnetite-qtz-chl veins.
Pontiac	P002	115.1	123.8	Ccc	GWAC	ChMt	A4	0.00	Sp			Massive, graded medium grained grey feld-qtz-lithic greywacke and interbedded siltstone. 2-5% qtz-magnetite veins with chloritic selvedge. Chl altered joints. Qtz-magnetite veins and stockwork to 30cm width.
Pontiac	P002	123.8	145.7	Ccc	GWAC	ChTo	A4	0.00	Sp	Bd	30	Massive, graded medium grained grey feld-qtz-lithic greywacke and interbedded Siltstone. Fine tourmaline alteration. Pervase biotite alteration from contact hornfelsing. 1-2% Mag-chl veins.
Pontiac	P002	145.7	169	Ccc	GWAC	ChMt	A4	0.01		Bd	20	Massive, graded medium grained grey feld-qtz-lithic greywacke and interbedded siltstone. 2-5% qtz-magnetite veins with chloritic selvedge. Chl altered joints. Qtz-magnetite veins and stockwork to 30cm width.

## Stratigraphy

Q	Quaternary alluvial, colluvial and dune deposits
Df	Devonian fine grained qtz sst and sst (Florence Quartzite). Fossiliferous
Dsk	Devonian Skarn
Dg	Devonian Granite
Sc	Silurian sandstone and siltstone
Sc	Silurian pebble-cobble conglomerate.
Su	Silurian sediments
Og	Limestone (Gordon Limestone)
Oc	Pebble conglomerate, PC derivation (Owen Gp).
Os	Siliceous sst and conglomerate.
Ccc	Contiguous Creek Fm
Cch	Contiguous Creek Fm chert
Ccarb	Contiguous Creek Fm carbonate and calcareous sediments.
Cba	Cambrian Basalt (Mclvor Hill Complex)
Cbg	Cambrian gabbro
Cba	Cambrian basaltic volcanics
Csu	Cambrian ultramafic
Cud	Cambrian ultramafic dunite
Cup	Cambrian ultramafic orthopyroxenite

## Rock Types

Volcanic Rocktypes have a four letter code. The first letter is the style (intrusive, volcanoclastic etc)  
The second is the chemical composition (basaltic, rhyolitic), the third is the major component (qtz phyr, lithic rich etc)  
the last is the texture (fine grained, breccia etc). For example IUPC is an intrusive, ultramafic, pyroxene phyr and coarse grained.

### Style codes

I	Intrusive
L	Lava
V	Volcanoclastic

E Epiclastic

**Composition codes**

U Ultramafic  
B Basaltic (mafic)  
A Andesitic  
D Dacitic  
R Rhyolitic

**Composition Codes**

Q Qtz phyric (qtz xtal rich)  
F feldspar phyric  
H Hornblende phyric  
P Pyroxene phyric  
L Lithic rich  
X crystal rich  
V Vitric

**Texture codes**

F fine  
M medium  
C coarse  
B breccia

**Other Rock codes**

CHRT Chert  
CARB Carbonate  
GWAC Greywacke  
SSLT Siltstone  
SAND Sandstone  
SERP Serpentinite  
CONG Conglomerate  
GRAN Granite  
GRAD Granodiorite  
SKRN Skarn  
LOSS No Core recovery

CLAY	Clay
MMAG	Massive magnetite
SKSP	Serpentinite Skarn
SHAL	Shale
HEVC	Heamatitic Volcaniclastic
PHLG	Plogopite schist

### **Colour**

Colours can be classified by shade using a 1 to 5 scale. ie. B1 = pale brown, B5=dark Brown

N	Black
B	Brown
P	Purple
G	Green
C	Cream
W	White
Y	Yellow
T	Tan
R	Red
O	Orange

### **Alteration**

Ac	Actinolite
Ch	Chlorite
Se	Sericite
Cb	Carbonate
Di	Diopside
Ax	Axinite
Sc	Serpentine-chrysotilic
Sp	Serpentine
So	Schorl
Ph	Phlogopite
Sx	Sulphidic

Py	Pyritic
Po	Pyrrhotitic
Ht	Haematitic
Mg	Magnetite
To	Tourmaline
Si	Silica
Qz	Quartz

### Geotech

Intact Rock Strength	Code	UCS
Extremely weak	EW	0.5 Mpa
Very Weak	VW	
Weak	W	2.5 Mpa
Moderately strong	MS	37.5 Mpa
Strong	S	75 Mpa
Very strong	VS	100 Mpa
Extremely strong	ES	150 Mpa

Roughness type	Code	Jr
Stepped Smooth	SS	3.5
Discontinuous	DC	4
Planar Smooth	PS	1
Stepped Rough	SR	3
Planar rough	PR	1.5
Undulating Smooth	US	2
Undulating Rough	UR	3

No of Defect Sets	Code	Jn
Default	0	1
One Set	1	2
One Set + random	1.5	3
Two Sets	2	4
Two Sets + random	2.5	6
Three Sets	3	9
Three Sets + random	3.5	12

Four Sets		4	15
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<b>Joint Alteration</b>	<b>Code</b>	<b>Ja</b>	
Default		0	1
Carb	CB		2
Serpentine	SP		5
Clay	CY		5
Quartz	QZ		1
Sericite	SE		3
Chlorite	CH		3
Clean	X		1
Iron	FE		1.5
Haematite	H		2