2014 Tulsequah Project: Feasibility Study Optimization

APPENDIX II

TULSEQUAH CHIEF PLAN AND VERTICAL SECTIONS

BC Geological Survey
Assessment Report
35093c

Tulsequah River Area
Northwestern BC
NTS 104K/12

Atlin Mining Division

Latitude 58°44'N, Longitude 133°35'W

Owner & Operator:

Chieftain Metals Inc.
2 Bloor Street West, Suite 2510
Toronto, Ontario

15350 y
15300 y
15250 y
15200 y
15150 y
15100 y
15050 y
15000 y
14950 y
10400 x
10450 x
10500 x
10550 x
10600 x
10650 x
10700 x
10750 x
10800 x

Geological Legend

Surface / End

- CASE casing
- OVB overburden
- EOH end of hole
- LOST

Intrusive Rocks

- BIN basalt intrusion
- BDK basalt dyke
- ADK andesite dyke
- FDK felsic dyke
- RDK rhyolite dyke
- SRD rhyolite dyke, Sloko Fm
- qfp quartz feldspar porphyry

Mafic Extrusive Rocks

- BAU basalt undivided
- BFL basalt flow
- BFLX basalt flow breccia
- BTF basalt tuff, undivided
- BAT basalt ash tuff
- BLAT basalt lapilli and ash tuff
- BLT basalt lapilli tuff
- BXLT basalt crystal lapilli tuff
- BFX basalt fragmental
- BDF basalt debris flow
- BAHY basalt hyaloclastite

Intermediate Extrusive Rocks

- AND andesite undivided
- ANDev evolved andesite
- AFL andesite flow
- AAT andesite ash tuff
- ALAT andesite lapilli and ash tuff
- AFX andesite fragmental
- DAU dacite, undivided
- DFL dacite flow
- DFLX dacite flow breccia
- DTF dacite tuff, undivided
- DAT dacite ash tuff
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RFL rhyolite flow
- RFLX rhyolite flow breccias
- RTF rhyolite tuff, undivided
- RAT rhyolite ash tuff
- RLAT rhyolite lapilli and ash tuff
- RLT rhyolite lapilli tuff
- RXLT rhyolite crystal lapilli tuff
- RFX rhyolite fragmental, coars
- RDF rhyolite debris flow
- RLS Rhyolite Lapilli Stone
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- CHT Chert
- LS limestone
- VSD Volcanic Sedimentary
- ARG argillite / tuffaceous
- SH shale (fissile)
- SLT siltstone / tuffaceous

Mineralized / Alteration

- MSX massive sulphides
- SMSX semi-massive sulphides
- SSX stringer zone sulphides
- SCBX sulphide clast breccia
- SSTK sulphide stockwork
- CUF copper facies
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies
- CHF chert facies
- GYF gypsum facies
- QSP quartz sericite pyrite
- CSP chlorite sericite pyrite
- CSS chlorite sericite alteration
- SBX hydrothermal breccia (sx)

Faults / Structures

- FAUL fault
- FLZN fault zone
- BX breccia, undivided
- FBX fault breccia
- FBXcr milled fault breccia (crush)
- QZVN quartz vein
- QZBX quartz vein breccia
- QSTK quartz stockwork, silica
- QCBX quartz carbonate vein

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

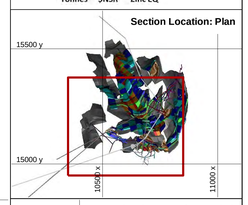
- Development
- Cut and Fill
- Longitudinal
- Primary
- Secondary

Stope_Name

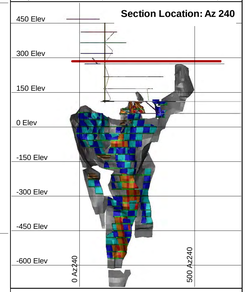
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level +270m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes, and All Drilling with Resource two metre capped Assay Composites

Scale 1:500

metres

Drawn by: BA	Planview elev 285m; ±15m	21 Nov 2014

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

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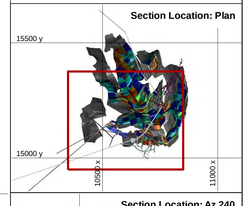
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Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

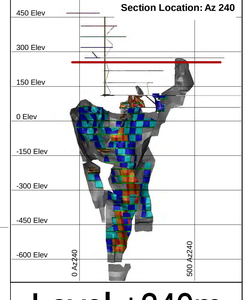
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level +240m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Planview elev 255m; ±15m	21 Nov 2014

Geological Legend

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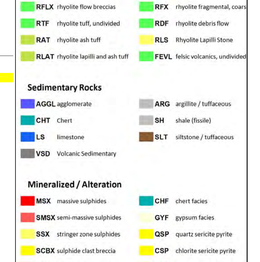
Development
Cut and Fill
Primary
Longitudinal
Secondary

Stope_Name
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)
Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level +210m

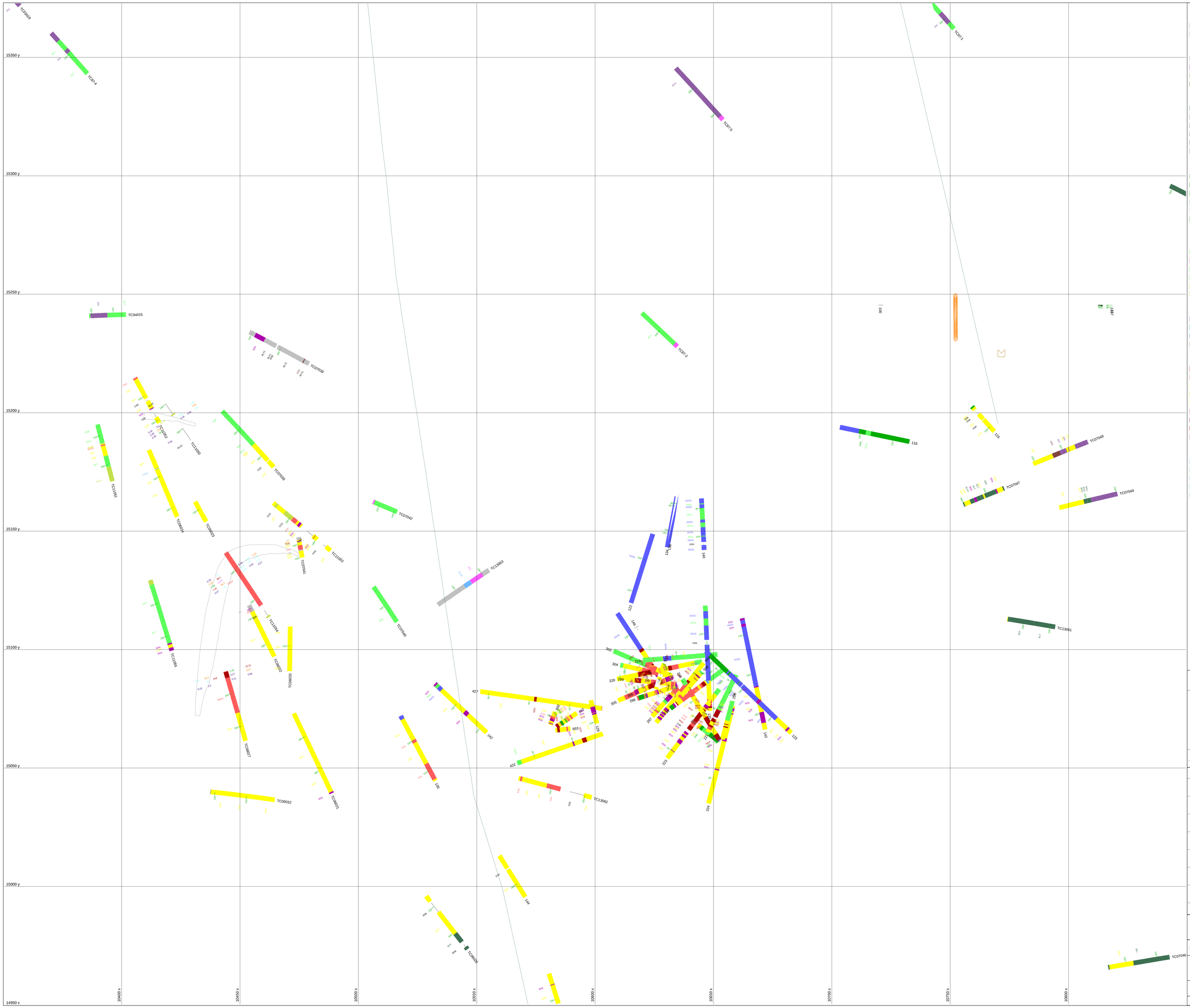
CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

Scale 1:500 (-5 0 5 10 15 20 25 metres)

Drawn by: BA	Planview elev 225m; ±15m	21 Nov 2014


15350 y
15300 y
15250 y
15200 y
15150 y
15100 y
15050 y
15000 y
14950 y
10400 x
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10500 x
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Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) INT Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

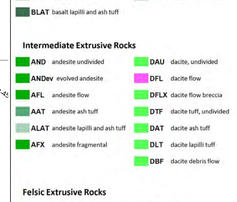
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level +150m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Planview elev 165m; ±15m	21 Nov 2014

15350 y
15300 y
15250 y
15200 y
15150 y
15100 y
15050 y
15000 y
14950 y
10400 x
10450 x
10500 x
10550 x
10600 x
10650 x
10700 x
10750 x
10800 x

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%) DH Trace

2014 Stope Information

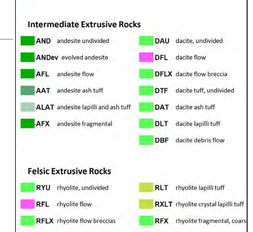
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

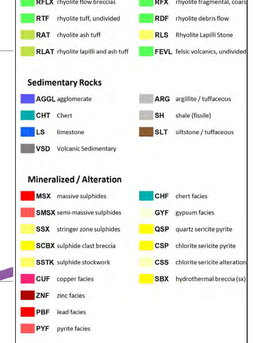
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level +120m

CHIEFTAIN METALS INC

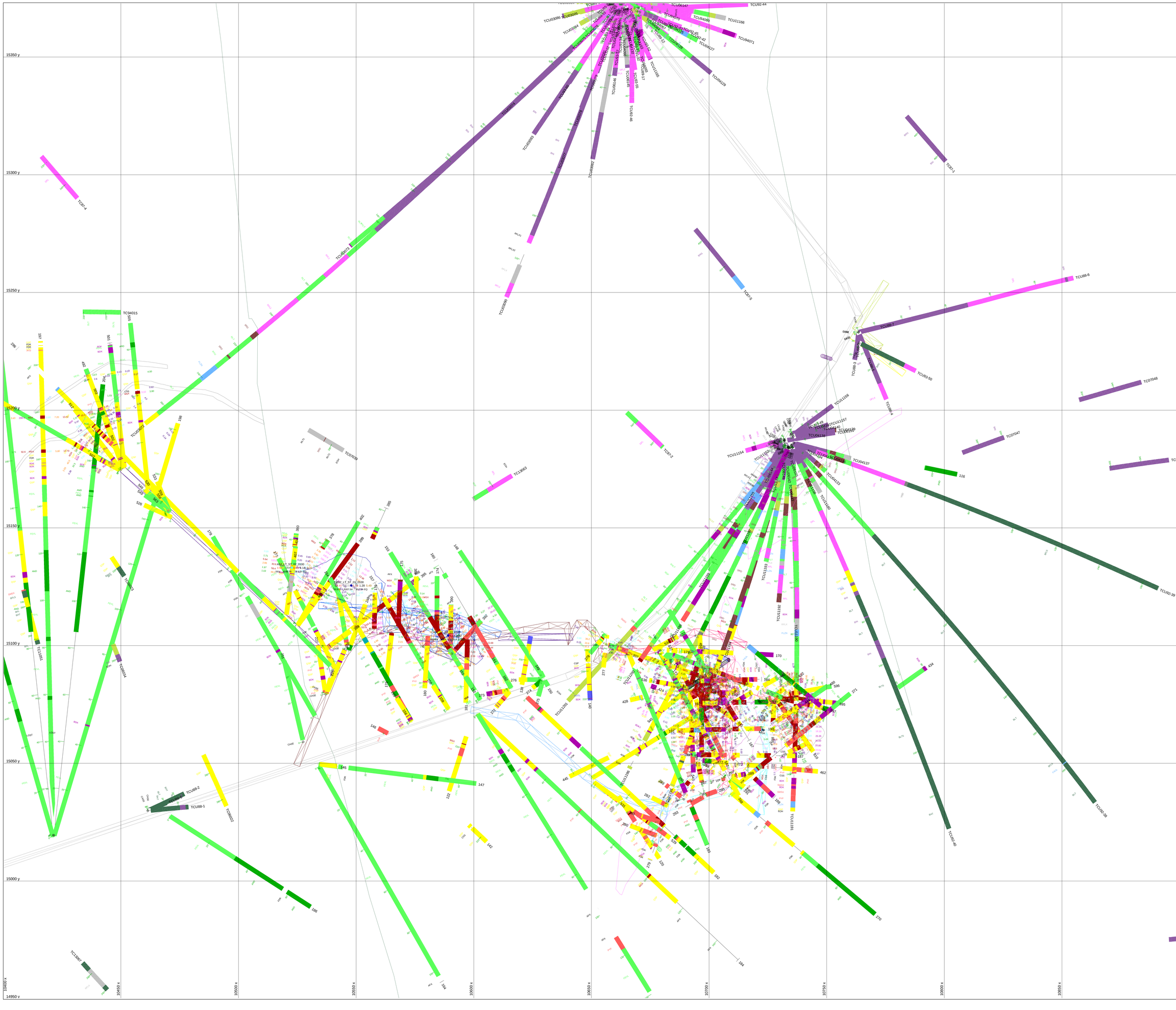
Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

Scale 1:500

metres

Drawn by: BA	Planview elev 135m; ±15m	21 Nov 2014



Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

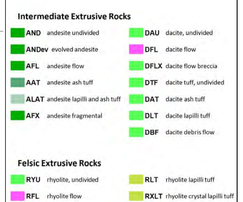
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Primary
Longitudinal
Secondary

Stope_Name

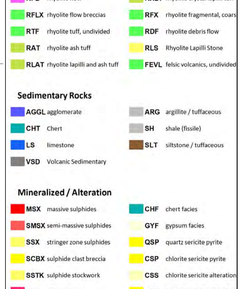
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level +90m

CHIEFTAIN METALS INC

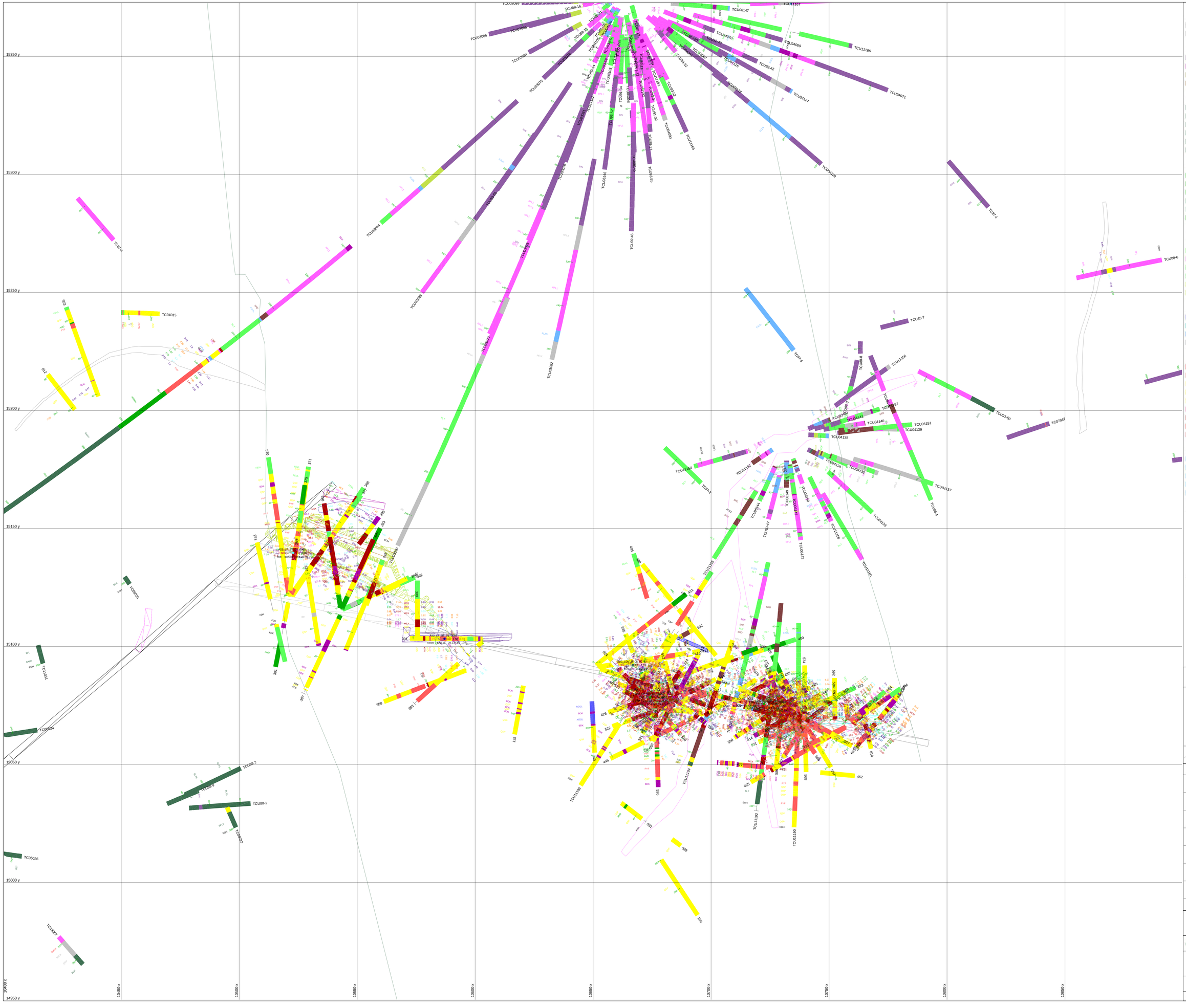
Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Planview elev 105m; ±15m	21 Nov 2014



Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) **DH Trace** Cu(%) Pb (%) Zn(%)

2014 Stope Information

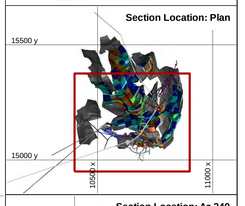
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name

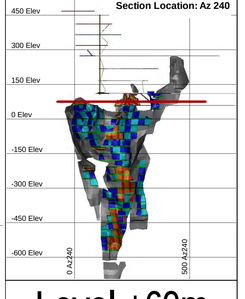
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level +60m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Planview elev 75m; ±15m	21 Nov 2014

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%) **DH Trace**

2014 Stope Information

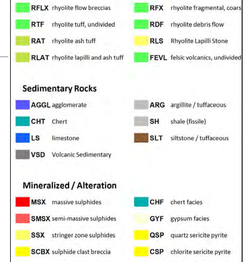
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)
Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level +30m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres
Scale 1:500

Drawn by: BA	Planview elev 45m; ±15m	21 Nov 2014

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) **Cu(%)** Pb (%) Zn(%) **DH Trace**

2014 Stope Information

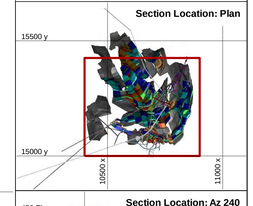
Development	
Cut and Fill	Primary
Longitudinal	Secondary

Stope_Name

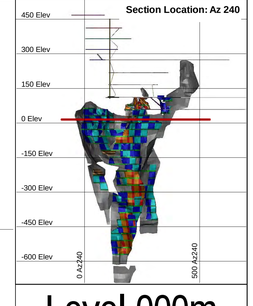
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level 000m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Planview elev 15m; ±15m	21 Nov 2014

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%) HH Stope

2014 Stope Information

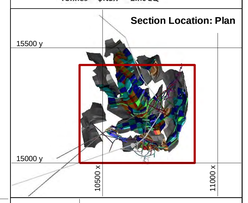
- Development
- Cut and Fill
- Longitudinal
- Primary
- Secondary

Stope_Name

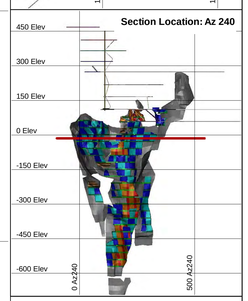
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -30m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

Scale 1:500 (-5 0 5 10 15 20 25 metres)

Drawn by: BA	Planview elev -15m; ±15m	21 Nov 2014

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

DH Trace

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%)

2014 Stope Information

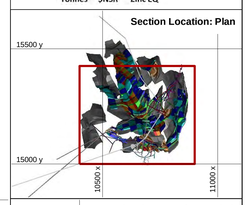
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

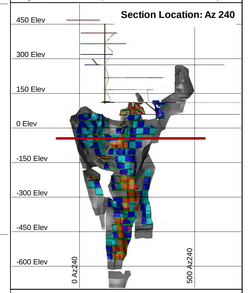
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -60m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

Scale 1:500

metres

Drawn by: BA	Planview elev -45m; ±15m	21 Nov 2014

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

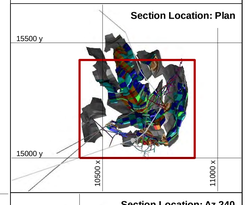
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

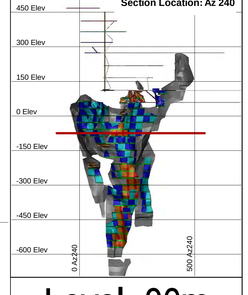
Au (g/i) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -90m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes, and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Planview elev -75m; ±15m	21 Nov 2014

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) **Lithology** Depth(m) **HW trace** Cu(%) Pb (%) Zn(%)

2014 Stope Information

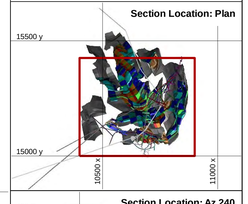
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name

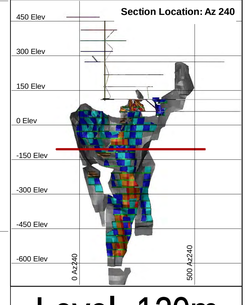
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -120m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

Scale 1:500 (-5 0 5 10 15 20 25 metres)

Drawn by: BA	Planview elev -105m; ±15m	21 Nov 2014

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%) DH Trace

2014 Stope Information

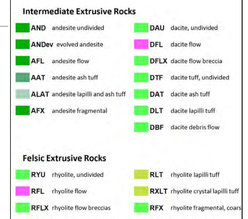
- Development
- Cut and Fill
- Longitudinal
- Primary
- Secondary

Stope_Name

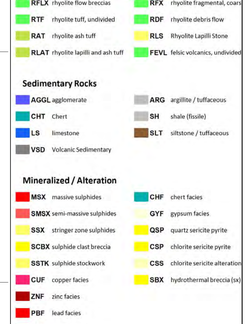
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -150m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

Scale 1:500

Drawn by: BA	Planview elev -135m; ±15m	21 Nov 2014

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%)

2014 Stope Information

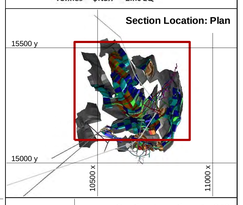
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

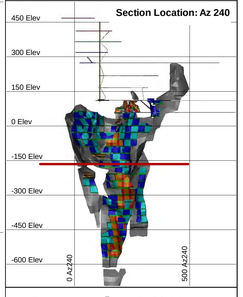
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -180m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

Scale 1:500 (-5 0 5 10 15 20 25 metres)

Drawn by: BA	Planview elev -165m; ±15m	21 Nov 2014

15500 y
15450 y
15400 y
15350 y
15300 y
15250 y
15200 y
15150 y
15100 y
10400 x
10450 x
10500 x
10550 x
10600 x
10650 x
10700 x
10750 x
10800 x

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%) DH Type

2014 Stope Information

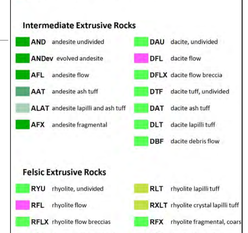
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

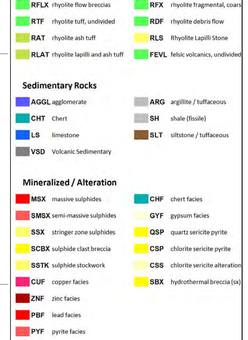
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -210m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Planview elev -195m; ±15m	21 Nov 2014

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

DH Type

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%)

2014 Stope Information

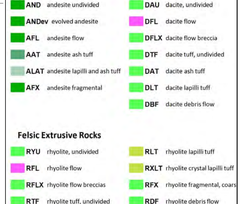
Development
Cut and Fill
Primary
Longitudinal
Secondary

Stope_Name

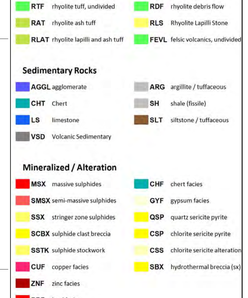
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -240m

CHIEFTAIN METALS INC

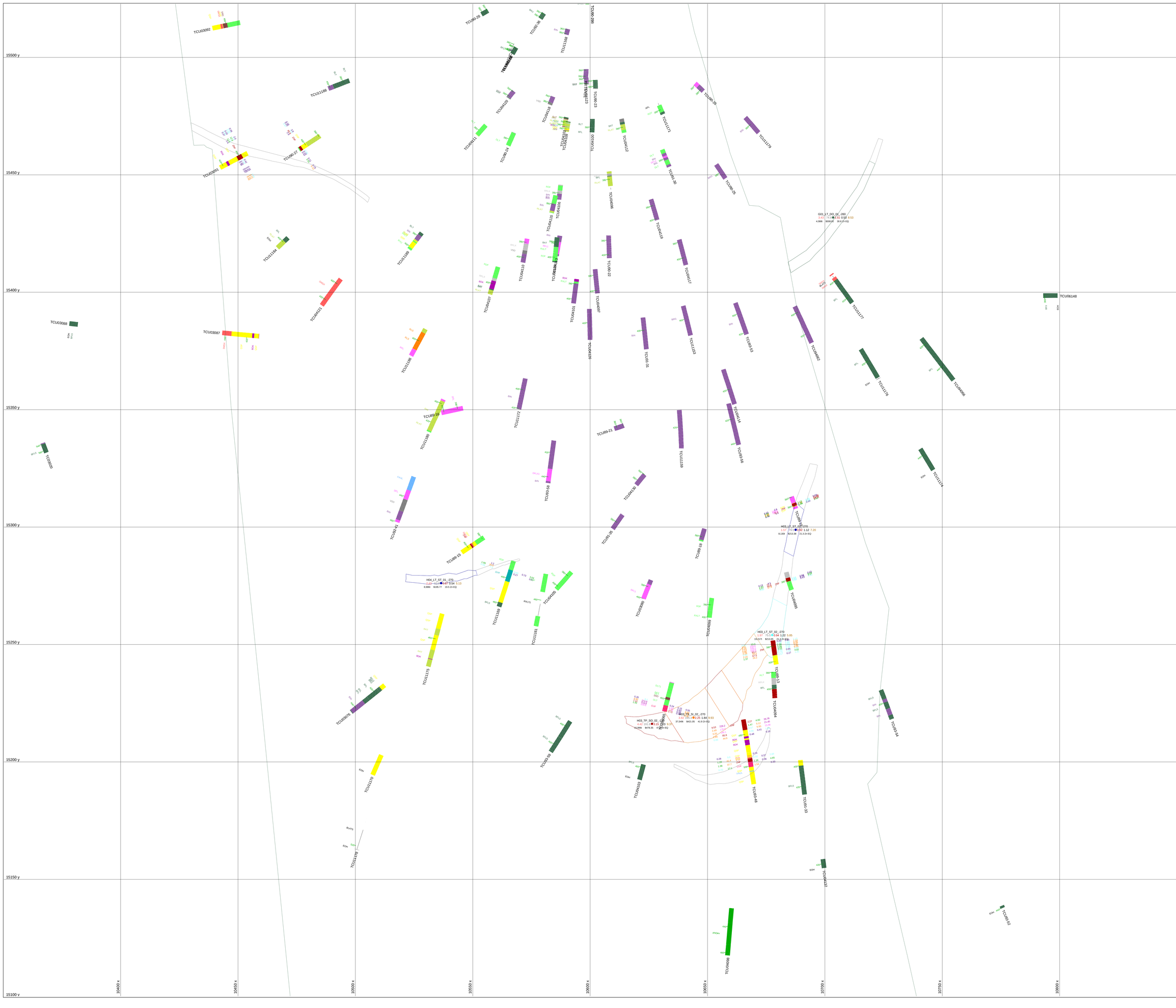
Tulsequah Chief: 2014 JDS Mine Plan Stopes

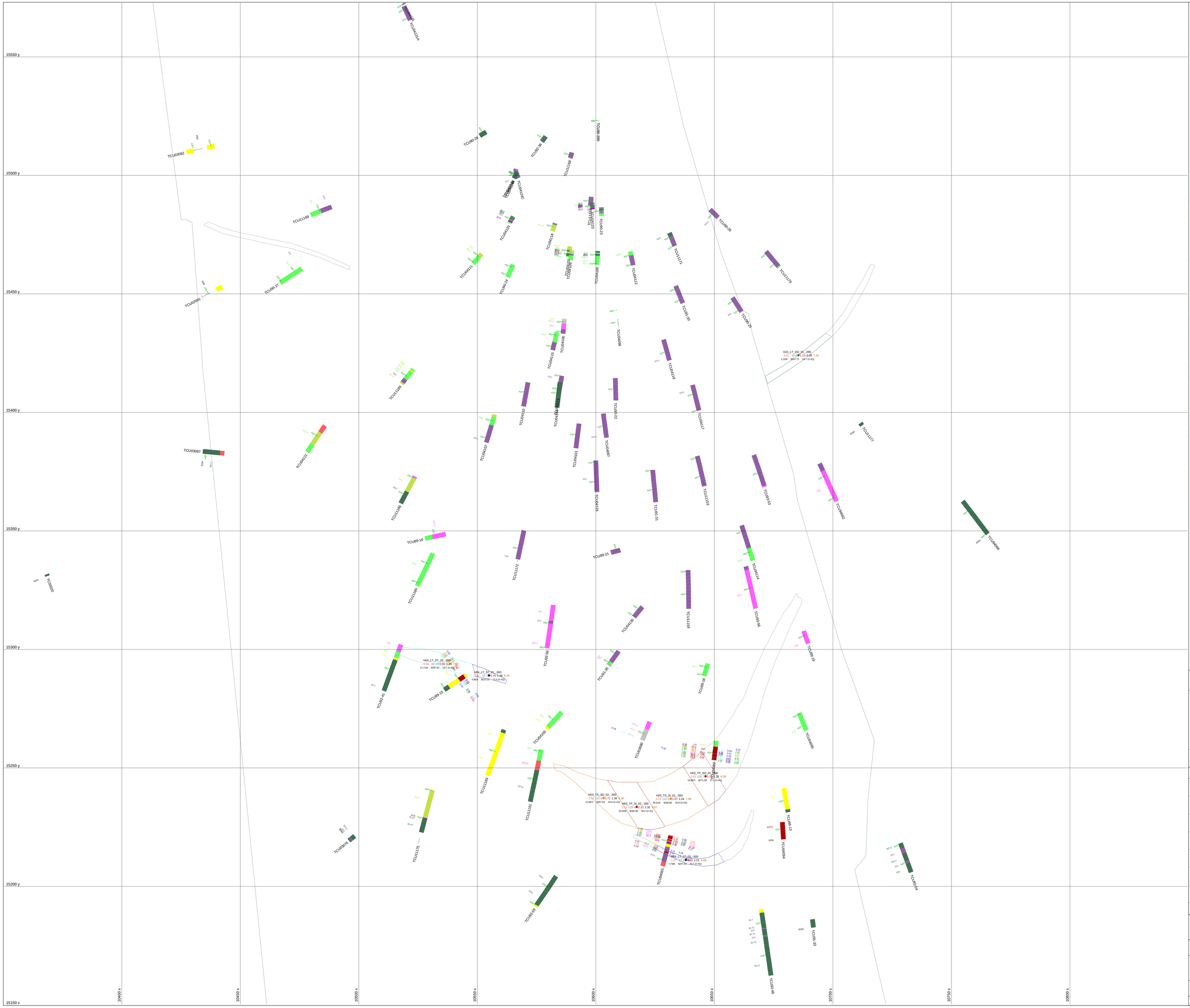
Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

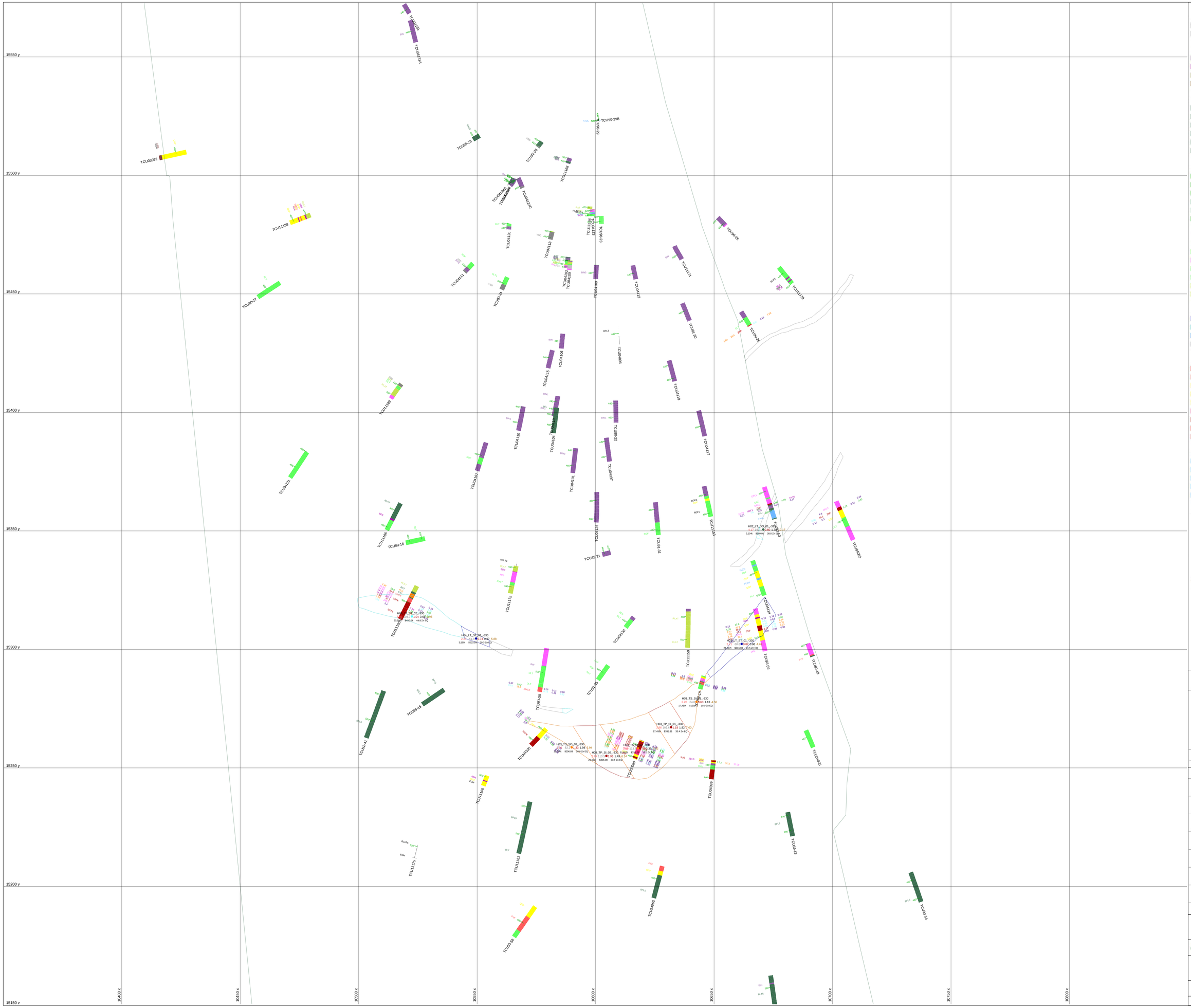
-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Planview elev -225m; ±15m	21 Nov 2014


15500 y
15450 y
15400 y
15350 y
15300 y
15250 y
15200 y
15150 y
15100 y
10400 x
10450 x
10500 x
10550 x
10600 x
10650 x
10700 x
10750 x
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Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

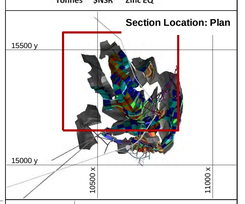
Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%) DH Trace

2014 Stope Information

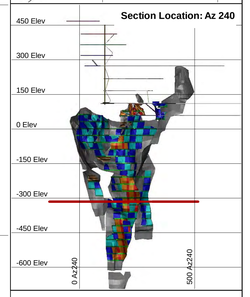
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)
Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -330m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

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Scale 1:500

Drawn by: BA	Planview elev -315m; ±15m	21 Nov 2014

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TCU94095
TCU89-54
TCU89-59

H04_LT_ST_02_-360
3.87 75.1 61.02 0.09 0.54
9,447t $275.9T 27.5 Zn EQ

H04_LT_ST_01_-360
4.38 80.9 1.03 0.12 5.89
21,429t $432.1M 26.1 Zn EQ

H02_LT_DO_01_-345
2.24 75.2 0.04 1.12 0.03
3,879t $209.4T 20.9 Zn EQ

H03_LT_ST_01_-360
2.80 73.9 1.14 1.12 4.77
17,537t $246.2M 24.5 Zn EQ

H03_TS_SI_01_-360
1.28 78.3D 1.03 2.26 0.13 0.56
10,000t $814.9M 19.4 Zn EQ 0.13 3.23 22.8
0.13 1.92 7.82
0.13 1.92 7.82

H02_LT_ST_02_-360
1.00 78.1 1.03 1.46 8.31
12,648t $242.6M 24.7 Zn EQ

H03_TP_SI_01_-360
3.38 125.2 1.45 2.04 9.34
8,843t $330.4T 32.9 Zn EQ

H03_TS_SI_02_-360
1.82 120.4 1.80 1.41 4.09
25,983t $286.4T 29.5 Zn EQ

H03_TP_SO_02_-360
2.96 146.7 2.13 1.63 8.99
13,204t $614.6T 31.3 Zn EQ

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) **Lithology** **Depth(m)** **HH Trace** **Cu(%)** Pb (%) Zn(%)

2014 Stope Information

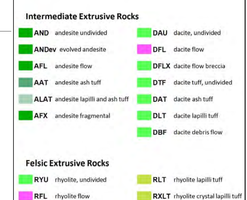
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

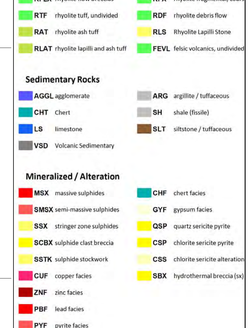
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -360m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Planview elev -345m; ±15m	21 Nov 2014

15550 y
15500 y
15450 y
15400 y
15350 y
15300 y
15250 y
15200 y
15150 y
10400 x
10450 x
10500 x
10550 x
10600 x
10650 x
10700 x
10750 x
10800 x

TCU64131
TCU64131A
TCU90-29B
TCU90-29
TCU90-28
TCU90-30
TCU11188
TCU64124B
TCU64124
TCU64124C
TCU11188
TCU64120
TCU64119
TCU11184
TCU90-23
TCU90-26
TCU64111
TCU90-24
TCU64102
TCU64109
TCU64100
TCU64112
TCU11171
TCU11179
TCU90-27
TCU90-30
TCU90-25
TCU64108
TCU64096
TCU64115
TCU11189
TCU64119
TCU64110
TCU64113
TCU64104
TCU90-22
TCU64097
TCU64101
TCU64117
TCU64107
TCU64121
TCU89-16
TCU89-21
TCU11186
TCU64126
TCU11153
TCU89-53
TCU64062
TCU91-31
TCU11177
TCU64130
TCU11180
TCU91-35
TCU64114
TCU89-19
TCU89-18
TCU11159
TCU93-56
TCU64086
TCU82-41
TCU89-58
TCU93980
TCU65099
TCU89-54
TCU89-59

H02_LT_ST_01_390
0.41 89.8 5.62 1.49 0.64
25,066 $27.45 22.7 Zn EQ

H02_LT_ST_02_390
2.90 167.5 70.73 3.44 5.22
36,557t $243.58 24.3 Zn EQ

H04_LT_ST_01_390
1.42 48.1 90.74 1.49 2.22
18,068 $194.80 19.4 Zn EQ

H04_LT_ST_02_390
0.95 0.58 22.22
$27.51 25.9 Zn EQ

H02_LT_ST_03_390
5.19 121.8 0.91 1.53 5.29
24,267t $277.56 27.7 Zn EQ

H03_LT_ST_02_390
2.39 207.8 2.81 1.39
16,548t $367.81 36.6 Zn EQ

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

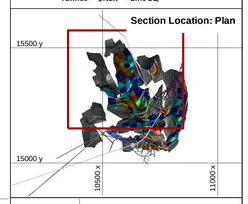
Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%) DH Trace

2014 Stope Information

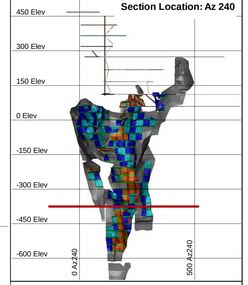
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)
Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -390m

CHIEFTAIN METALS INC

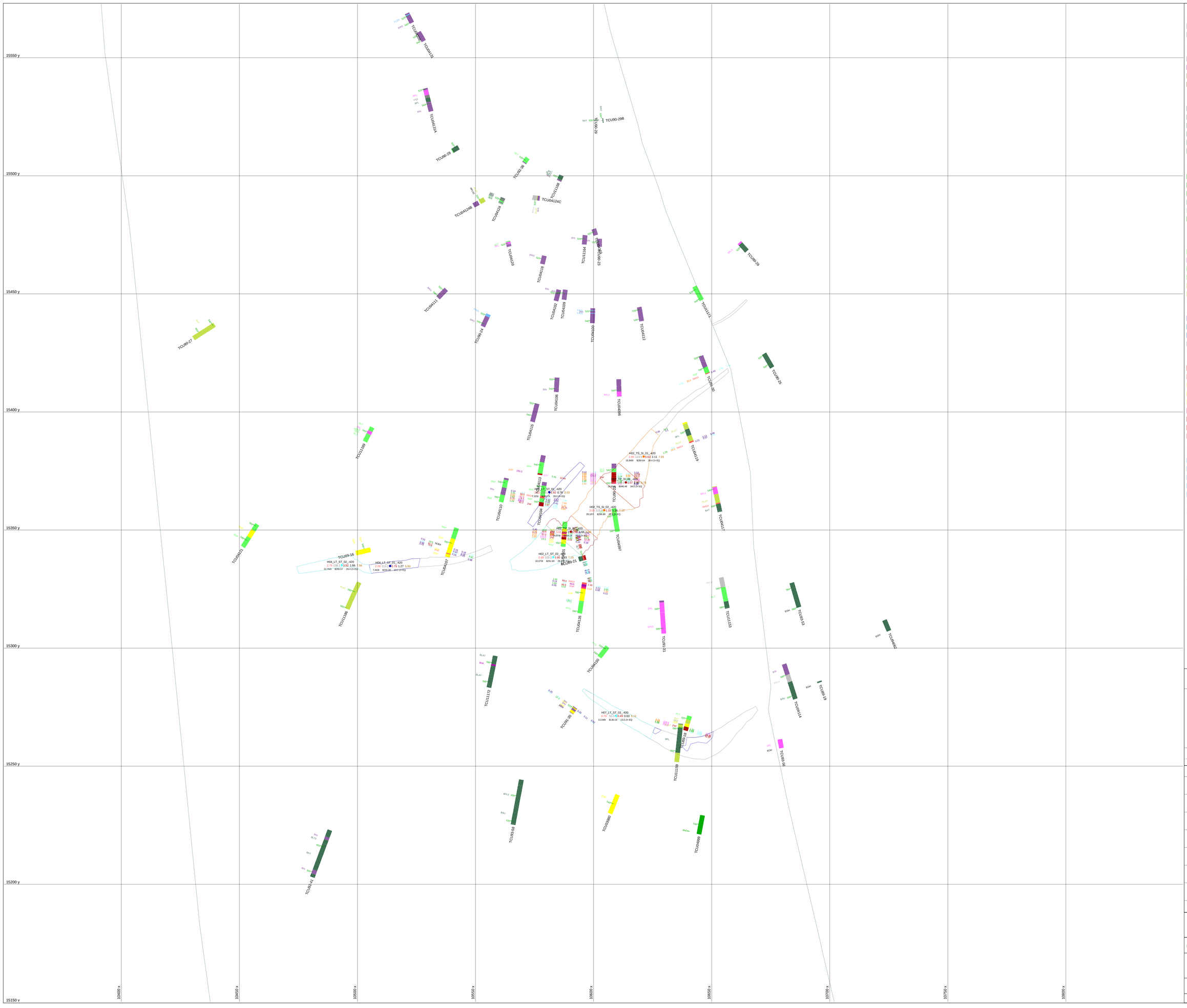
Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes, and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Planview elev -375m; ±15m	21 Nov 2014



Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%) DH Trace

2014 Stope Information

Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

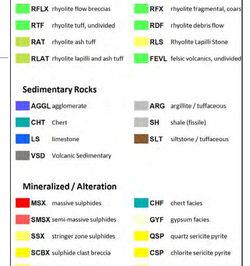
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -420m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Planview elev -405m; ±15m	21 Nov 2014

15600 y
15550 y
15500 y
15450 y
15400 y
15350 y
15300 y
15250 y
10450 x
10500 x
10550 x
10600 x
10650 x
10700 x
10750 x
10800 x

TCU04116
TCU04111
TCU04121
TCU04124B
TCU04124C
TCU04114
TCU04120
TCU04118
TCU04111
TCU04102
TCU04109
TCU04100
TCU04112
TCU04106
TCU04115
TCU04104
TCU04101
TCU04097
TCU04107
TCU04139
TCU04138
TCU04117
TCU04114
TCU04159
TCU04080
TCU04099
TCU03-56
TCU89-34
TCU89-16
TCU89-23
TCU89-18
TCU89-31
TCU90-29B
TCU90-22
TCU90-26
TCU90-30
TCU90-35
TCU11189
TCU11186
TCU11184
TCU11172
TCU11171
TCU11153
TCU11159
TCU80-27

H02_LT_ST_02_-450
H02_TS_SI_01_-450
H05_LT_ST_01_-450
H02_TP_SI_01_-450
H05_LT_ST_02_-450
H02_TP_SI_02_-450
H07_LT_ST_02_-450
H07_LT_ST_01_-450

Geological Legend

Surface / End

- CASE casing
- OVB overburden
- EOH end of hole
- LOST

Intrusive Rocks

- BIN basalt intrusion
- BDK basalt dyke
- ADK andesite dyke
- FDK felsic dyke
- RDK rhyolite dyke
- SRD rhyolite dyke, Sloko Fm
- qfp quartz feldspar porphyry

Mafic Extrusive Rocks

- BAU basalt undivided
- BFL basalt flow
- BFLX basalt flow breccia
- BTF basalt tuff, undivided
- BAT basalt ash tuff
- BLAT basalt lapilli and ash tuff
- BLT basalt lapilli tuff
- BXLT basalt crystal lapilli tuff
- BFX basalt fragmental
- BDF basalt debris flow
- BAHY basalt hyaloclastite

Intermediate Extrusive Rocks

- AND andesite undivided
- ANDev evolved andesite
- AFL andesite flow
- AAT andesite ash tuff
- ALAT andesite lapilli and ash tuff
- AFX andesite fragmental
- DAU dacite, undivided
- DFL dacite flow
- DFLX dacite flow breccia
- DTF dacite tuff, undivided
- DAT dacite ash tuff
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RFL rhyolite flow
- RFLX rhyolite flow breccias
- RTF rhyolite tuff, undivided
- RAT rhyolite ash tuff
- RLAT rhyolite lapilli and ash tuff
- RLT rhyolite lapilli tuff
- RXLT rhyolite crystal lapilli tuff
- RFX rhyolite fragmental, coars
- RDF rhyolite debris flow
- RLS Rhyolite Lapilli Stone
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- CHT Chert
- LS limestone
- VSD Volcanic Sedimentary
- ARG argillite / tuffaceous
- SH shale (fissile)
- SLT siltstone / tuffaceous

Mineralized / Alteration

- MSX massive sulphides
- SMSX semi-massive sulphides
- SSX stringer zone sulphides
- SCBX sulphide clast breccia
- SSTK sulphide stockwork
- CUF copper facies
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies
- CHF chert facies
- GYF gypsum facies
- QSP quartz sericite pyrite
- CSP chlorite sericite pyrite
- CSS chlorite sericite alteration
- SBX hydrothermal breccia (sx)

Faults / Structures

- FAUL fault
- FLZN fault zone
- BX breccia, undivided
- FBX fault breccia
- FBXcr milled fault breccia (crush)
- QZVN quartz vein
- QZBX quartz vein breccia
- QSTK quartz stockwork, silica
- QCBX quartz carbonate vein

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%) — DH Trace

2014 Stope Information

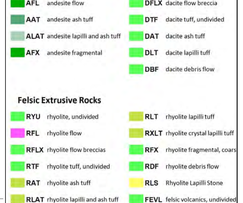
- Development
- Cut and Fill
- Longitudinal
- Primary
- Secondary

Stope_Name

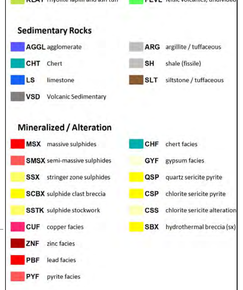
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -450m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes, and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Planview elev -435m; ±15m	21 Nov 2014

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
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Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
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Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
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RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
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MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

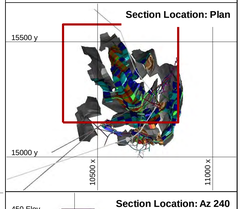
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

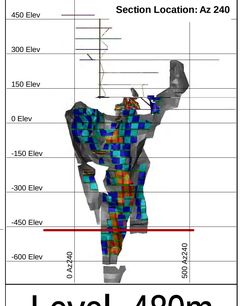
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -480m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Planview elev -465m; ±15m	21 Nov 2014

15600 y
15550 y
15500 y
15450 y
15400 y
15350 y
15300 y
15250 y
10400 x
10450 x
10500 x
10550 x
10600 x
10650 x
10700 x
10750 x
10800 x

TCU04116
TCU04113
TCU04131
TCU90-29B
TCU90-29
TCU90-28
TCU04131A
TCU90-36
TCU11198
TCU04124C
TCU04124B
TCU04124
TCU04123
TCU11164
TCU90-23
TCU04125
TCU04118
TCU90-26
TCU04111
H02_LT_ST_02_-510
-510 127 -19.99 1.35 7.23
49.225t $283.30 28.2 Zn EQ
H02_TS_SI_01_-510
-510 105 42 0.91 7.38
$317.87 31.7 Zn EQ
TCU04102
TCU90-27
TCU90-24
H02_TP_SI_01_-510
3.63 108 1.86 1.04 0.50
26.563t $345.43 34.4 Zn EQ
TCU04100
TCU03112
TCU11171
TCU90-25
H02_TS_SI_02_-510
4.92 115 2.37 1.50 10.10
35.874t $436.82 43.5 Zn EQ
TCU04105
TCU04096
TCU03120
TCU04115
TCU11199
TCU04113
TCU89-16
TCU90-22
TCU04110
TCU04104
TCU04101
TCU04121
TCU06097
TCU11193
TCU04122
TCU03131
TCU04099

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

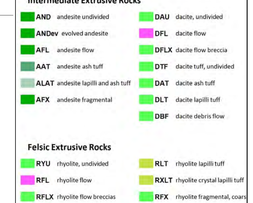
Au(g/t) Ag(g/t) Lithology Depth(m) INTERVAL Cu(%) Pb (%) Zn(%)

2014 Stope Information

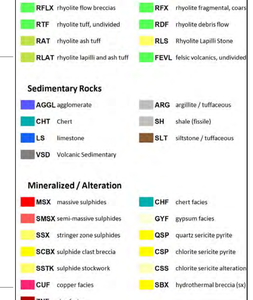
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)
Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -510m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres
Scale 1:500

Drawn by: BA	Planview elev -495m; ±15m	21 Nov 2014

15600 y
15550 y
15500 y
15450 y
15400 y
15350 y
15300 y
15250 y
10400 x
10450 x
10500 x
10550 x
10600 x
10650 x
10700 x
10750 x
10800 x

TCU04116
TCU04131
TCU90-29B
TCU90-28
TCU90-38
TCU04134
TCU041248
TCU04124
TCU011168
TCU041240
TCU04120
TCU04118
TCU04111
TCU90-24
TCU90-27
TCU90-26
TCU04109
TCU04102
TCU04100
TCU04106
TCU04096
TCU04115
TCU011139
TCU91-30
TCU90-25
TCU89-16
TCU04104
TCU04101
TCU09-22
TCU04121
TCU04130

Geological Legend

Surface / End

- CASE casing
- OVB overburden
- EOH end of hole
- LOST

Intrusive Rocks

- BIN basalt intrusion
- BDK basalt dyke
- ADK andesite dyke
- FDK felsic dyke
- RDK rhyolite dyke
- SRD rhyolite dyke, Sloko Fm
- qfp quartz feldspar porphyry

Mafic Extrusive Rocks

- BAU basalt undivided
- BFL basalt flow
- BFLX basalt flow breccia
- BTF basalt tuff, undivided
- BAT basalt ash tuff
- BLAT basalt lapilli and ash tuff
- BLT basalt lapilli tuff
- BXLT basalt crystal lapilli tuff
- BFX basalt fragmental
- BDF basalt debris flow
- BAHY basalt hyaloclastite

Intermediate Extrusive Rocks

- AND andesite undivided
- ANDev evolved andesite
- AFL andesite flow
- AAT andesite ash tuff
- ALAT andesite lapilli and ash tuff
- AFX andesite fragmental
- DAU dacite, undivided
- DFL dacite flow
- DFLX dacite flow breccia
- DTF dacite tuff, undivided
- DAT dacite ash tuff
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RFL rhyolite flow
- RFLX rhyolite flow breccias
- RTF rhyolite tuff, undivided
- RAT rhyolite ash tuff
- RLAT rhyolite lapilli and ash tuff
- RLT rhyolite lapilli tuff
- RXLT rhyolite crystal lapilli tuff
- RFX rhyolite fragmental, coars
- RDF rhyolite debris flow
- RLS Rhyolite Lapilli Stone
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- CHT Chert
- LS limestone
- VSD Volcanic Sedimentary
- ARG argillite / tuffaceous
- SH shale (fissile)
- SLT siltstone / tuffaceous

Mineralized / Alteration

- MSX massive sulphides
- SMSX semi-massive sulphides
- SSX stringer zone sulphides
- SCBX sulphide clast breccia
- SSTK sulphide stockwork
- CUF copper facies
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies
- CHF chert facies
- GYF gypsum facies
- QSP quartz sericite pyrite
- CSP chlorite sericite pyrite
- CSS chlorite sericite alteration
- SBX hydrothermal breccia (sx)

Faults / Structures

- FAUL fault
- FLZN fault zone
- BX breccia, undivided
- FBX fault breccia
- FBXcr milled fault breccia (crush)
- QZVN quartz vein
- QZBX quartz vein breccia
- QSTK quartz stockwork, silica
- QCBX quartz carbonate vein

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

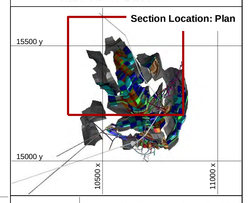
DH Trace
Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%)

2014 Stope Information

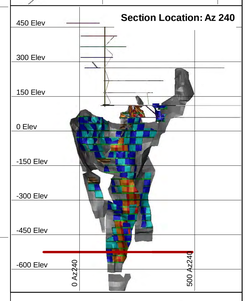
- Development
- Cut and Fill
- Longitudinal
- Primary
- Secondary

Stope_Name
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)
Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -540m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes, and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres
Scale 1:500

Drawn by: BA	Planview elev -525m; ±15m	21 Nov 2014

15650 y
15600 y
15550 y
15500 y
15450 y
15400 y
15350 y
15300 y
10400 x
10450 x
10500 x
10550 x
10600 x
10650 x
10700 x
10750 x
10800 x
TCUD4122A
TCUD4118
TCUD4124B
TCUD4131
TCUD4131A
TCUD4124
TCUD5-36
TCUD11168
TCUD4123
TCUD4123A
TCUD4120
TCUD4118
TCUD11111
TCUD5-23
TCUD5-28
TCUD4111
TCUD5-24
TCUD4102
TCUD4109
TCUD5-27
TCUD11109
TCUD4121
TCUD5-22
TCUD90-29B
H02_LT_ST_01_-570
H02_TS_SI_01_-570
H02_TP_SI_01_-570
H02_TS_SO_02_-570
Geological Legend
Surface / End
CASE casing
OVB overburden
EOH end of hole
LOST
Intrusive Rocks
BIN basalt intrusion
BDK basalt dyke
ADK andesite dyke
FDK felsic dyke
RDK rhyolite dyke
SRD rhyolite dyke, Sloko Fm
qfp quartz feldspar porphyry
Mafic Extrusive Rocks
BAU basalt undivided
BFL basalt flow
BFLX basalt flow breccia
BTF basalt tuff, undivided
BAT basalt ash tuff
BLAT basalt lapilli and ash tuff
BLT basalt lapilli tuff
BXLT basalt crystal lapilli tuff
BFX basalt fragmental
BDF basalt debris flow
BAHY basalt hyaloclastite
Intermediate Extrusive Rocks
AND andesite undivided
ANDev evolved andesite
AFL andesite flow
AAT andesite ash tuff
ALAT andesite lapilli and ash tuff
AFX andesite fragmental
DAU dacite, undivided
DFL dacite flow
DFLX dacite flow breccia
DTF dacite tuff, undivided
DAT dacite ash tuff
DLT dacite lapilli tuff
DBF dacite debris flow
Felsic Extrusive Rocks
RYU rhyolite, undivided
RFL rhyolite flow
RFLX rhyolite flow breccias
RTF rhyolite tuff, undivided
RAT rhyolite ash tuff
RLAT rhyolite lapilli and ash tuff
RLT rhyolite lapilli tuff
RXLT rhyolite crystal lapilli tuff
RFX rhyolite fragmental, coars
RDF rhyolite debris flow
RLS Rhyolite Lapilli Stone
FEVL felsic volcanics, undivided
Sedimentary Rocks
AGGL agglomerate
CHT Chert
LS limestone
VSD Volcanic Sedimentary
ARG argillite / tuffaceous
SH shale (fissile)
SLT siltstone / tuffaceous
Mineralized / Alteration
MSX massive sulphides
SMSX semi-massive sulphides
SSX stringer zone sulphides
SCBX sulphide clast breccia
SSTK sulphide stockwork
CUF copper facies
ZNF zinc facies
PBF lead facies
PYF pyrite facies
CHF chert facies
GYF gypsum facies
QSP quartz sericite pyrite
CSP chlorite sericite pyrite
CSS chlorite sericite alteration
SBX hydrothermal breccia (sx)
Faults / Structures
FAUL fault
FLZN fault zone
BX breccia, undivided
FBX fault breccia
FBXcr milled fault breccia (crush)
QZVN quartz vein
QZBX quartz vein breccia
QSTK quartz stockwork, silica
QCBX quartz carbonate vein
suffix codes
1 feldspar
2 quartz
3 amphibole
4 pyroxene
5 amygdaloidal
qp quartz porphyry
fp feldspar porphyry
qfp quartz feldspar porphyry
Drillhole Trace Information
Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)
2014 Stope Information
Development
Cut and Fill
Longitudinal
Primary
Secondary
Stope_Name
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)
Tonnes $NSR Zinc EQ
Section Location: Plan
15500 y
15000 y
10500 x
11000 x
Section Location: Az 240
450 Elev
300 Elev
150 Elev
0 Elev
-150 Elev
-300 Elev
-450 Elev
-600 Elev
0 Az 240
500 Az 240
Level -570m
CHIEFTAIN METALS INC
Tulsequah Chief: 2014 JDS Mine Plan Stopes
Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites
-5 0 5 10 15 20 25
metres
Scale 1:500
Drawn by: BA
Planview elev -555m: ±15m
21 Nov 2014

15650 y
15600 y
15550 y
15500 y
15450 y
15400 y
15350 y
15300 y
10400 x
10450 x
10500 x
10550 x
10600 x
10650 x
10700 x
10750 x
10800 x
TCU04122A
TCU04118
TCU04108
TCU04131
TCU90-29B
TCU90-29
TCU90-30
TCU04124B
TCU04131A
TCU11008
TCU04130
TCU04118
TCU90-23
TCU90-26
TCU04111
TCU04102
TCU90-24
TCU90-37
TCU90-22

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

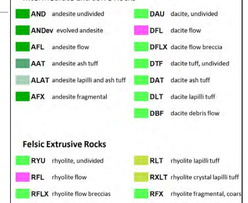
Development
Cut and Fill
Primary
Longitudinal
Secondary

Stope_Name

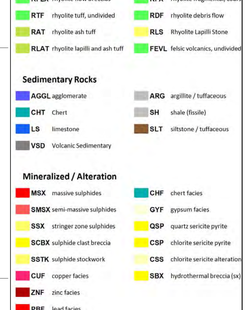
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -600m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Planview elev -585m; ±15m	21 Nov 2014

15650 y
15600 y
15550 y
15500 y
15450 y
15400 y
15350 y
15300 y
10400 x
10450 x
10500 x
10550 x
10600 x
10650 x
10700 x
10750 x
10800 x
TCU04122A
TCU04116
TCU04108
TCU04131
TCU90-29B
TCU92-06
TCU04124B
TCU04131A
TCU90-23
TCU90-26
TCU04111
TCU04102
TCU90-24
TCU90-27
TCU90-22

Geological Legend

Surface / End

- CASE casing
- OVB overburden
- EOH end of hole
- LOST

Intrusive Rocks

- BIN basalt intrusion
- BDK basalt dyke
- ADK andesite dyke
- FDK felsic dyke
- RDK rhyolite dyke
- SRD rhyolite dyke, Sloko Fm
- qfp quartz feldspar porphyry

Mafic Extrusive Rocks

- BAU basalt undivided
- BFL basalt flow
- BFLX basalt flow breccia
- BTF basalt tuff, undivided
- BAT basalt ash tuff
- BLAT basalt lapilli and ash tuff
- BLT basalt lapilli tuff
- BXLT basalt crystal lapilli tuff
- BFX basalt fragmental
- BDF basalt debris flow
- BAHY basalt hyaloclastite

Intermediate Extrusive Rocks

- AND andesite undivided
- ANDev evolved andesite
- AFL andesite flow
- AAT andesite ash tuff
- ALAT andesite lapilli and ash tuff
- AFX andesite fragmental
- DAU dacite, undivided
- DFL dacite flow
- DFLX dacite flow breccia
- DTF dacite tuff, undivided
- DAT dacite ash tuff
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RFL rhyolite flow
- RFLX rhyolite flow breccias
- RTF rhyolite tuff, undivided
- RAT rhyolite ash tuff
- RLAT rhyolite lapilli and ash tuff
- RLT rhyolite lapilli tuff
- RXLT rhyolite crystal lapilli tuff
- RFX rhyolite fragmental, coars
- RDF rhyolite debris flow
- RLS Rhyolite Lapilli Stone
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- CHT Chert
- LS limestone
- VSD Volcanic Sedimentary
- ARG argillite / tuffaceous
- SH shale (fissile)
- SLT siltstone / tuffaceous

Mineralized / Alteration

- MSX massive sulphides
- SMSX semi-massive sulphides
- SSX stringer zone sulphides
- SCBX sulphide clast breccia
- SSTK sulphide stockwork
- CUF copper facies
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies
- CHF chert facies
- GYF gypsum facies
- QSP quartz sericite pyrite
- CSP chlorite sericite pyrite
- CSS chlorite sericite alteration
- SBX hydrothermal breccia (sx)

Faults / Structures

- FAUL fault
- FLZN fault zone
- BX breccia, undivided
- FBX fault breccia
- FBXcr milled fault breccia (crush)
- QZVN quartz vein
- QZBX quartz vein breccia
- QSTK quartz stockwork, silica
- QCBX quartz carbonate vein

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

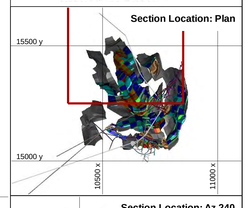
- Development
- Cut and Fill
- Longitudinal
- Primary
- Secondary

Stope_Name

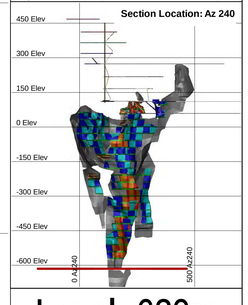
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -630m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Planview elev -615m; ±15m	21 Nov 2014

15650 y
15600 y
15550 y
15500 y
15450 y
15400 y
15350 y
15300 y
10400 x
10450 x
10500 x
10550 x
10600 x
10650 x
10700 x
10750 x
10800 x
TCU04122A
TCU04116
TCU04108
TCU04131
TCU90-29B
TCU05-30
TCU04124B
TCU90-23
TCU90-26
TCU04105
TCU90-24
TCU90-27
TCU90-22

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Type Cu(%) Pb (%) Zn(%)

2014 Stope Information

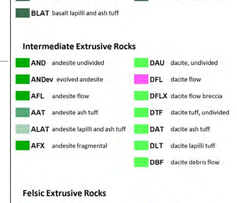
Development
Cut and Fill
Primary
Longitudinal
Secondary

Stope_Name

Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -660m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Planview elev -645m; ±15m	21 Nov 2014

15650 y
15600 y
15550 y
15500 y
15450 y
15400 y
15350 y
15300 y
10400 x
10450 x
10500 x
10550 x
10600 x
10650 x
10700 x
10750 x
10800 x
TCU041222A
TCU041416
TCU041408
TCU041411
TCU90-29B
TCU90-28
TCU042408
TCU90-23
TCU90-24
TCU90-26

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Type Cu(%) Pb (%) Zn(%)

2014 Stope Information

Development
Cut and Fill
Primary
Longitudinal
Secondary

Stope_Name

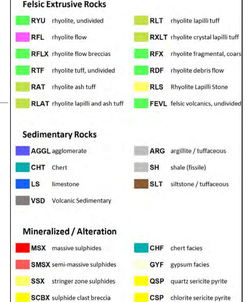
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Level -690m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Planview elev -675m; ±15m	21 Nov 2014

15650 y
15600 y
15550 y
15500 y
15450 y
15400 y
15350 y
15300 y
10400 x
10450 x
10500 x
10550 x
10600 x
10650 x
10700 x
10750 x
10800 x

TCU04122A
TCU04124B
TCU04121B
TCU04131
TCU04121A
TCU09-24
TCU09-23
TCU09-26
TCU09-28
EOH
FOH
FOH
EOH 622m+/-

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) **Lithology** Depth(m) **DH Type** Cu(%) Pb (%) Zn(%)

2014 Stope Information

Development
Cut and Fill **Primary**
Longitudinal **Secondary**

Stope_Name

Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes **$NSR** **Zinc EQ**

Section Location: Plan



Section Location: Az 240



Level -720m

CHIEFTAIN METALS INC

Tulsequah Chief: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), Main Faults, Dikes; and All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Planview elev -705m; ±15m	21 Nov 2014

300 elev
250 elev
200 elev
150 elev
100 elev
50 elev
0 elev
-50 elev
-100 elev

250 Az150
300 Az150
350 Az150
400 Az150
450 Az150
500 Az150
550 Az150
600 Az150
650 Az150
700 Az150

133
TCU03073
TCU06032
TCU03072
122
TCU13604
TCU13607
TCU13605
196
205
197
204
198
561

Geological Legend

Surface / End

- CASE casing
- EOH end of hole
- OVB overburden
- LOST

Intrusive Rocks

- BIN basalt intrusion
- RDK rhyolite dyke
- BDK basalt dyke
- SRD rhyolite dyke, Sloko Fm
- ADK andesite dyke
- qfp quartz feldspar porphyry
- FDK felsic dyke

Mafic Extrusive Rocks

- BAU basalt undivided
- BLT basalt lapilli tuff
- BFL basalt flow
- BXLT basalt crystal lapilli tuff
- BFLX basalt flow breccia
- BFX basalt fragmental
- BTF basalt tuff, undivided
- BDF basalt debris flow
- BAT basalt ash tuff
- BAHY basalt hyaloclastite
- BLAT basalt lapilli and ash tuff

Intermediate Extrusive Rocks

- AND andesite undivided
- DAU dacite, undivided
- ANDev evolved andesite
- DFL dacite flow
- AFL andesite flow
- DFLX dacite flow breccia
- AAT andesite ash tuff
- DTF dacite tuff, undivided
- ALAT andesite lapilli and ash tuff
- DAT dacite ash tuff
- AFX andesite fragmental
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RLT rhyolite lapilli tuff
- RFL rhyolite flow
- RXLT rhyolite crystal lapilli tuff
- RFLX rhyolite flow breccias
- RFX rhyolite fragmental, coars
- RTF rhyolite tuff, undivided
- RDF rhyolite debris flow
- RAT rhyolite ash tuff
- RLS Rhyolite Lapilli Stone
- RLAT rhyolite lapilli and ash tuff
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- ARG argillite / tuffaceous
- CHT Chert
- SH shale (fissile)
- LS limestone
- SLT siltstone / tuffaceous
- VSD Volcanic Sedimentary

Mineralized / Alteration

- MSX massive sulphides
- CHF chert facies
- SMSX semi-massive sulphides
- GYF gypsum facies
- SSX stringer zone sulphides
- QSP quartz sericite pyrite
- SCBX sulphide clast breccia
- CSP chlorite sericite pyrite
- SSTK sulphide stockwork
- CSS chlorite sericite alteration
- CUF copper facies
- SBX hydrothermal breccia (sx)
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies

Faults / Structures

- FAUL fault
- QZVN quartz vein
- FLZN fault zone
- QZBX quartz vein breccia
- BX breccia, undivided
- QSTK quartz stockwork, silica
- FBX fault breccia
- QCBX quartz carbonate vein
- FBXcr milled fault breccia (crush)

suffix codes

- 1 feldspar
- qp quartz porphyry
- 2 quartz
- fp feldspar porphyry
- 3 amphibole
- qfp quartz feldspar porphyry
- 4 pyroxene
- 5 amygdaloidal

Drillhole Trace Information

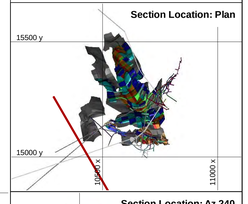
DH Trace
Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%)

2014 Stope Information

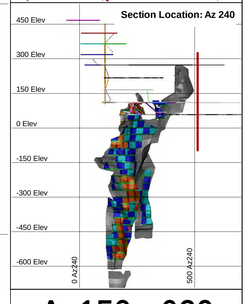
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)
Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 620

CHIEFTAIN METALS INC

Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres
Scale 1:500

Drawn by: BA | Vert Az150 Sect 620; ±10m | 21 Nov 2014

300 elev
250 elev
200 elev
150 elev
100 elev
50 elev
0 elev
-50 elev
-100 elev

250 Az150
300 Az150
350 Az150
400 Az150
450 Az150
500 Az150
550 Az150
600 Az150
650 Az150
700 Az150

139
TCU13067
TCU13065
132
TCU03072
TCU13065
196
205
197
204
198
TCU03073
TCU11061
TCU03074
561
TCU03067
TCU13065

Geological Legend

Surface / End

- CASE casing
- EOH end of hole
- OVB overburden
- LOST

Intrusive Rocks

- BIN basalt intrusion
- RDK rhyolite dyke
- BDK basalt dyke
- SRD rhyolite dyke, Sloko Fm
- ADK andesite dyke
- qfp quartz feldspar porphyry
- FDK felsic dyke

Mafic Extrusive Rocks

- BAU basalt undivided
- BLT basalt lapilli tuff
- BFL basalt flow
- BXLT basalt crystal lapilli tuff
- BFLX basalt flow breccia
- BFX basalt fragmental
- BTF basalt tuff, undivided
- BDF basalt debris flow
- BAT basalt ash tuff
- BAHY basalt hyaloclastite
- BLAT basalt lapilli and ash tuff

Intermediate Extrusive Rocks

- AND andesite undivided
- DAU dacite, undivided
- ANDev evolved andesite
- DFL dacite flow
- AFL andesite flow
- DFLX dacite flow breccia
- AAT andesite ash tuff
- DTF dacite tuff, undivided
- ALAT andesite lapilli and ash tuff
- DAT dacite ash tuff
- AFX andesite fragmental
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RLT rhyolite lapilli tuff
- RFL rhyolite flow
- RXLT rhyolite crystal lapilli tuff
- RFLX rhyolite flow breccias
- RFX rhyolite fragmental, coars
- RTF rhyolite tuff, undivided
- RDF rhyolite debris flow
- RAT rhyolite ash tuff
- RLS Rhyolite Lapilli Stone
- RLAT rhyolite lapilli and ash tuff
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- ARG argillite / tuffaceous
- CHT Chert
- SH shale (fissile)
- LS limestone
- SLT siltstone / tuffaceous
- VSD Volcanic Sedimentary

Mineralized / Alteration

- MSX massive sulphides
- CHF chert facies
- SMSX semi-massive sulphides
- GYF gypsum facies
- SSX stringer zone sulphides
- QSP quartz sericite pyrite
- SCBX sulphide clast breccia
- CSP chlorite sericite pyrite
- SSTK sulphide stockwork
- CSS chlorite sericite alteration
- CUF copper facies
- SBX hydrothermal breccia (sx)
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies

Faults / Structures

- FAUL fault
- QZVN quartz vein
- FLZN fault zone
- QZBX quartz vein breccia
- BX breccia, undivided
- QSTK quartz stockwork, silica
- FBX fault breccia
- QCBX quartz carbonate vein
- FBXcr milled fault breccia (crush)

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

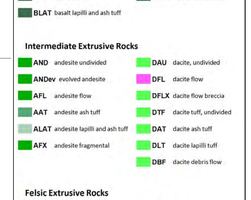
DH Trace
Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%)

2014 Stope Information

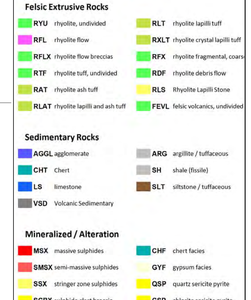
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)
Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 640

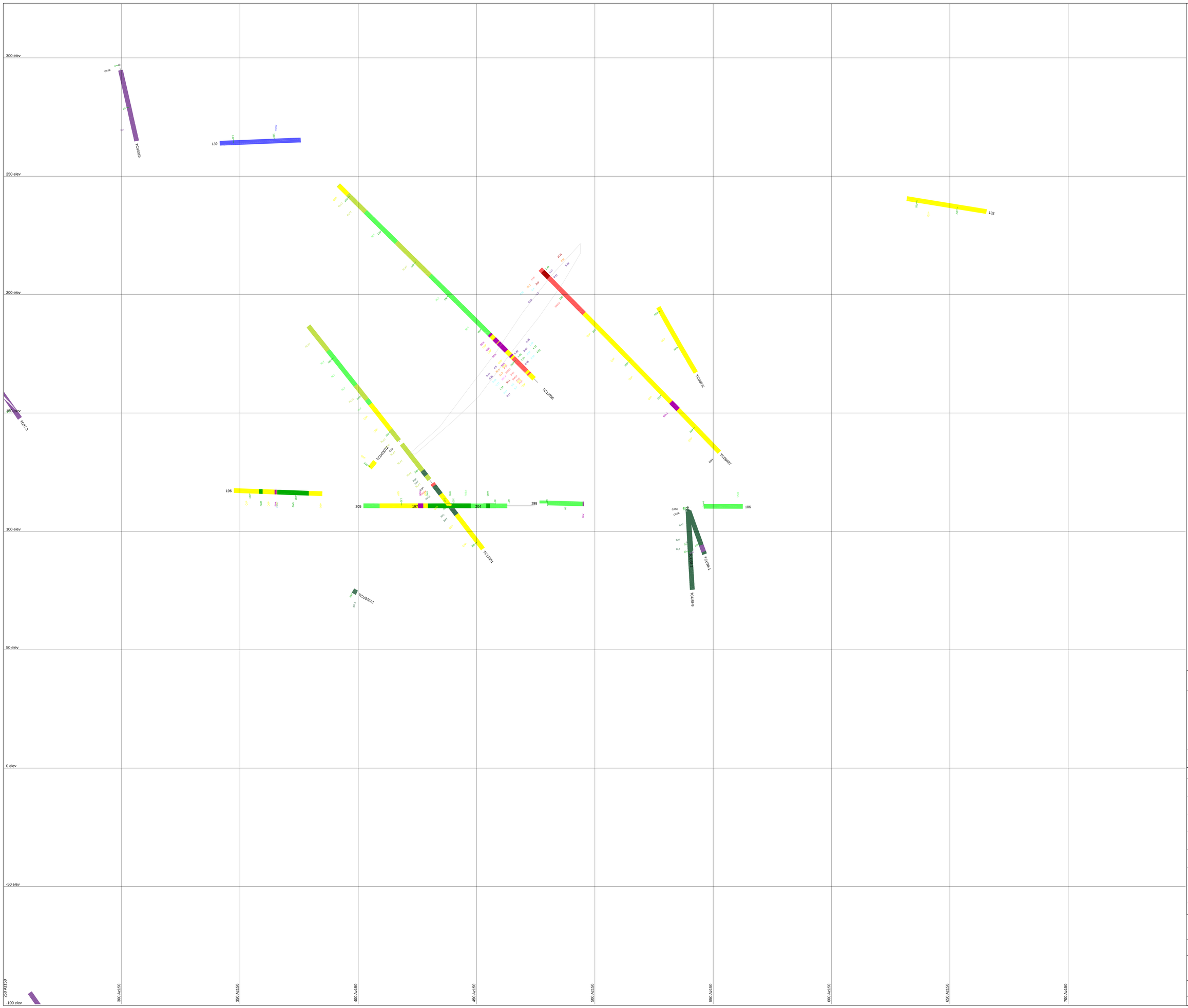
CHIEFTAIN METALS INC

Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres
Scale 1:500

Drawn by: BA | Vert Az150 Sect 640; ±10m | 21 Nov 2014



Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) **Lithology** Depth(m) **DH Trace** Cu(%) Pb (%) Zn(%)

2014 Stope Information

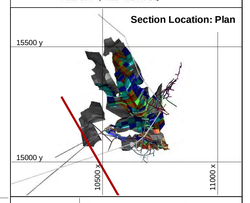
Development
Cut and Fill — Primary
Longitudinal — Secondary

Stope_Name

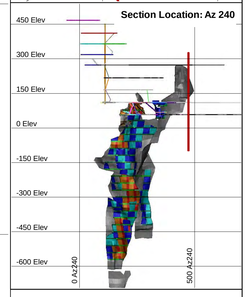
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 660

CHIEFTAIN METALS INC

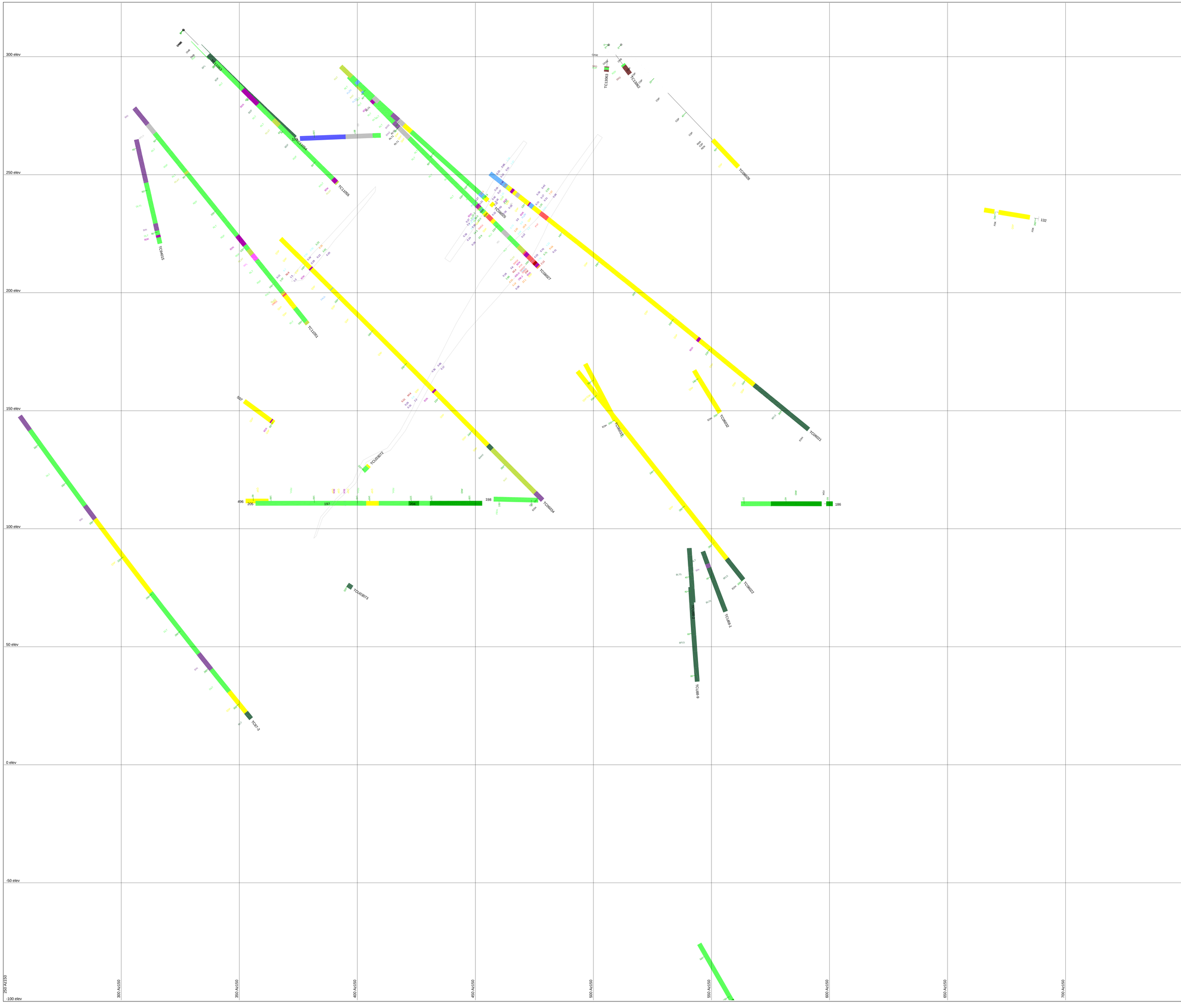
Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 660; ±10m	21 Nov 2014



Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
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BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

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AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

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RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

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SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
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FLZN	fault zone	QZBX	quartz vein breccia
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2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

DH Trace

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%)

2014 Stope Information

Development
Cut and Fill
Primary
Longitudinal
Secondary

Stope_Name

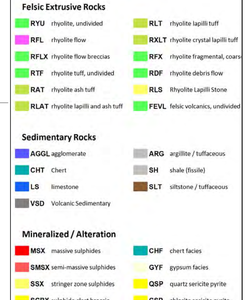
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 680

CHIEFTAIN METALS INC

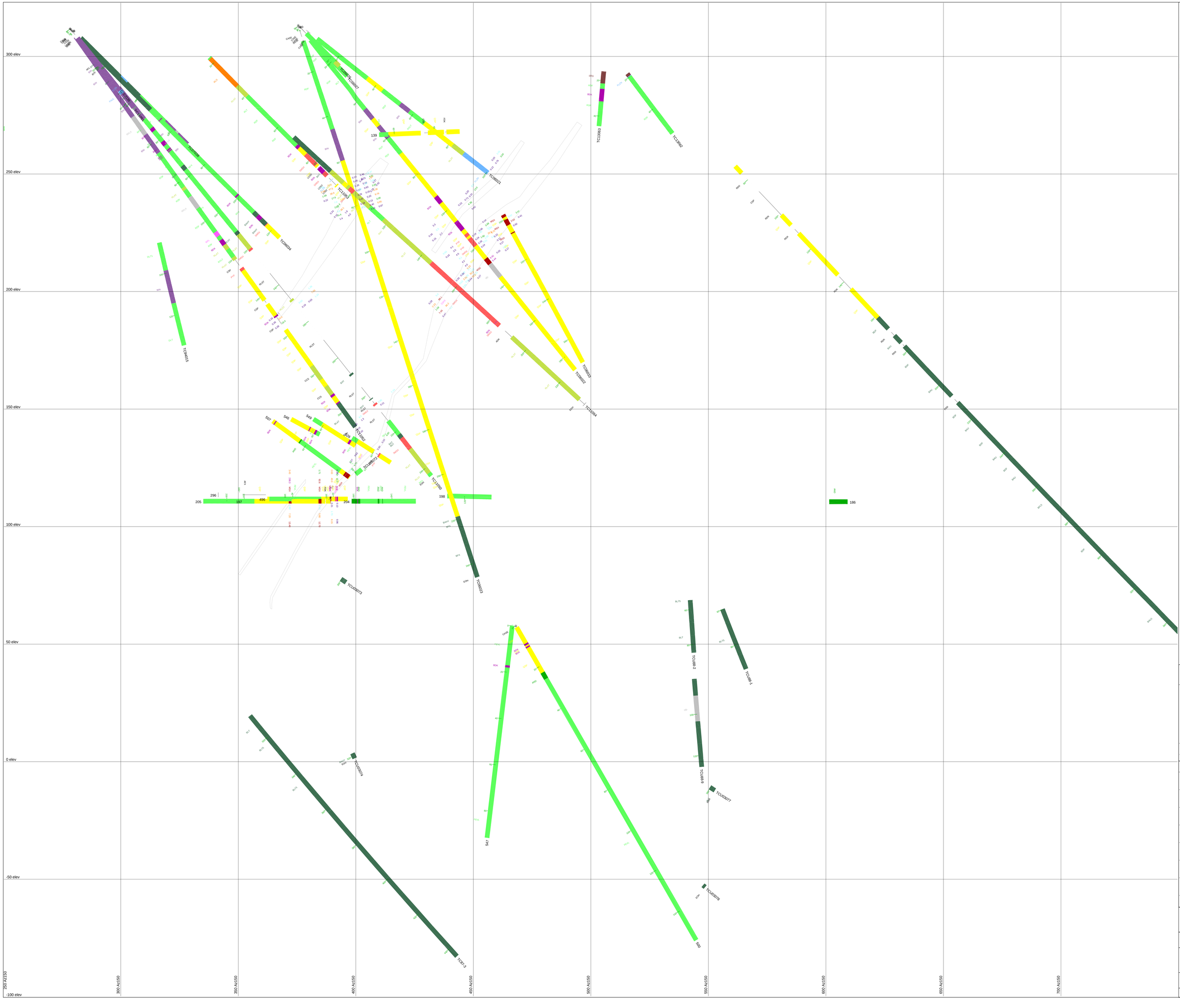
Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

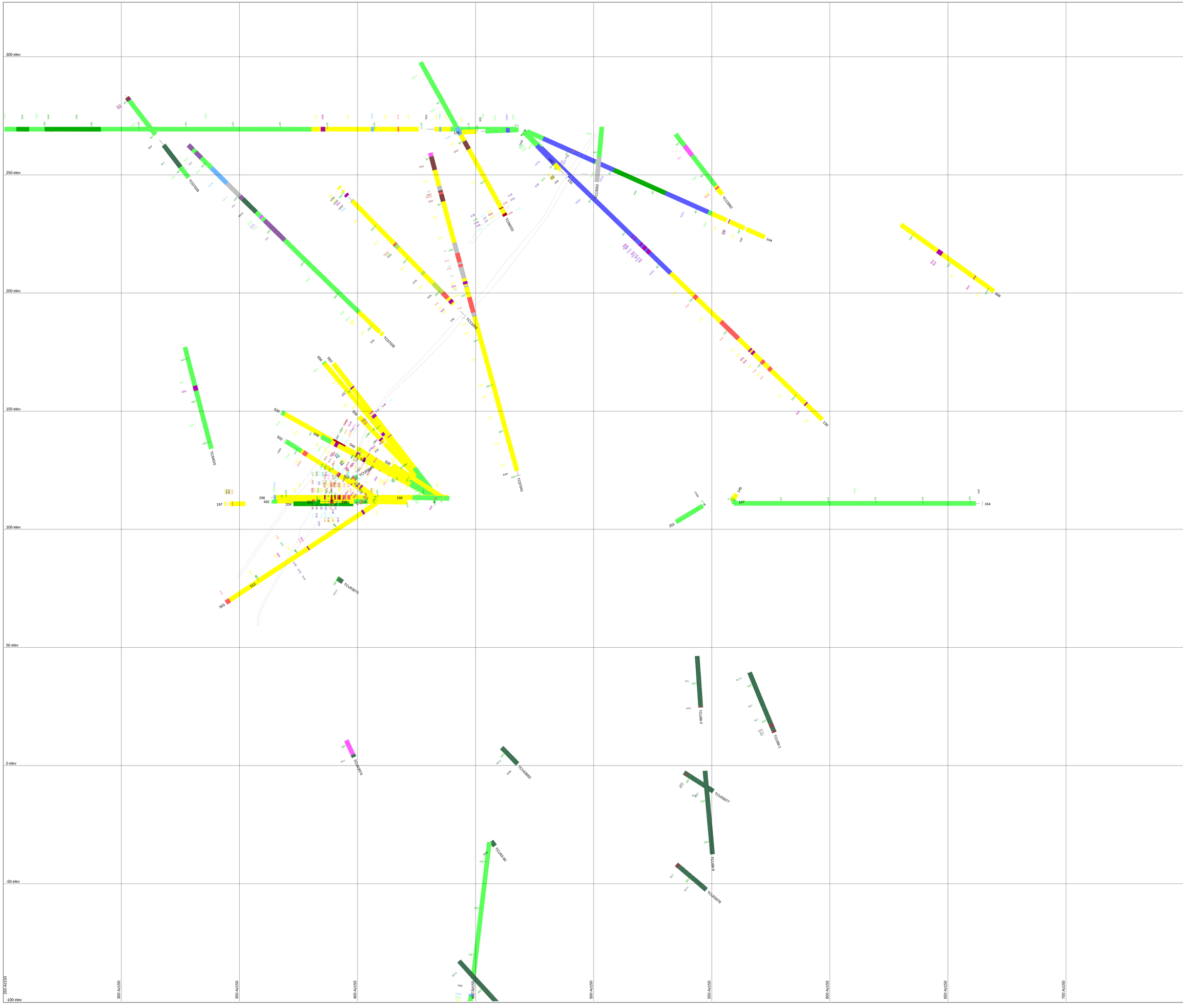
Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

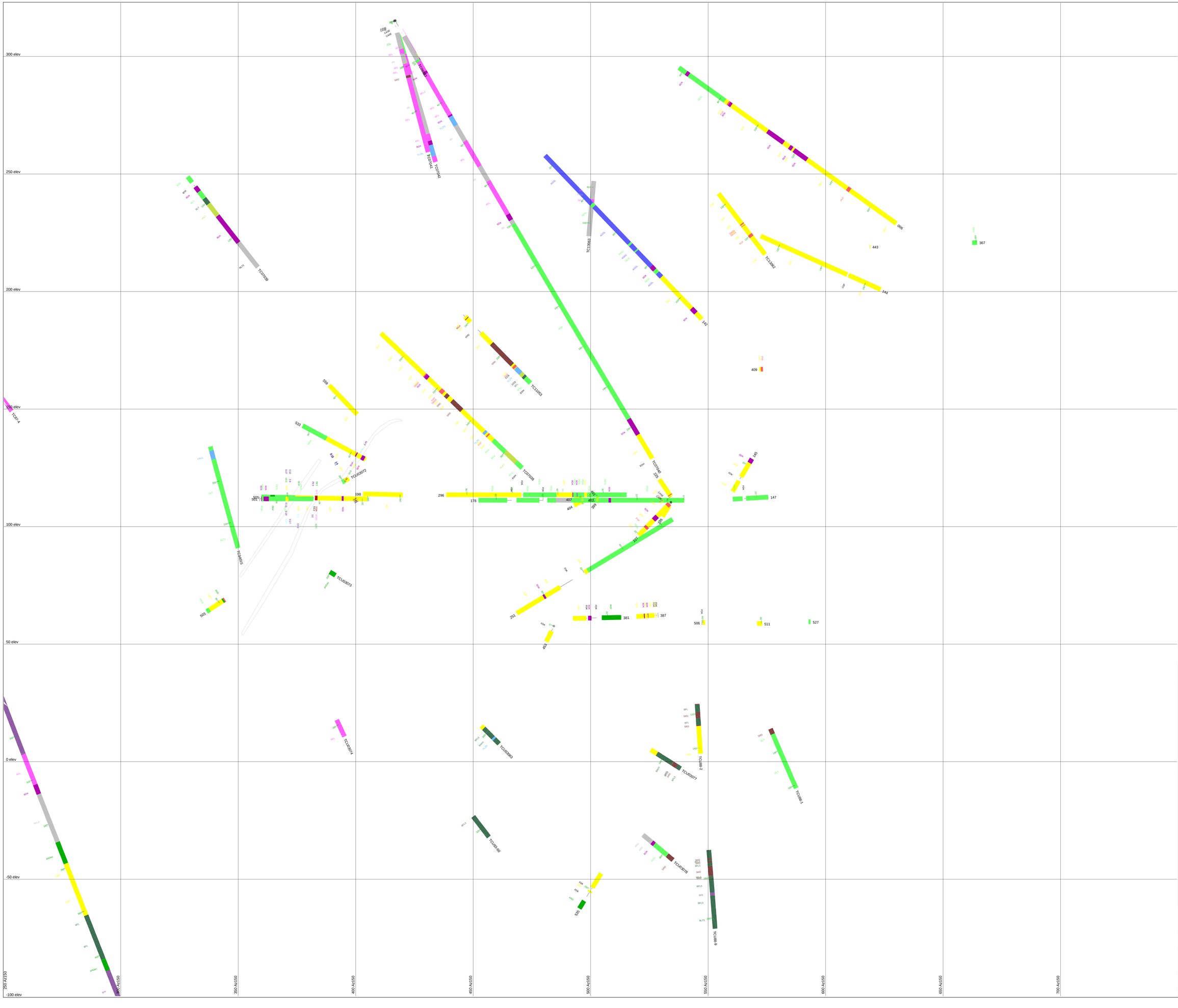
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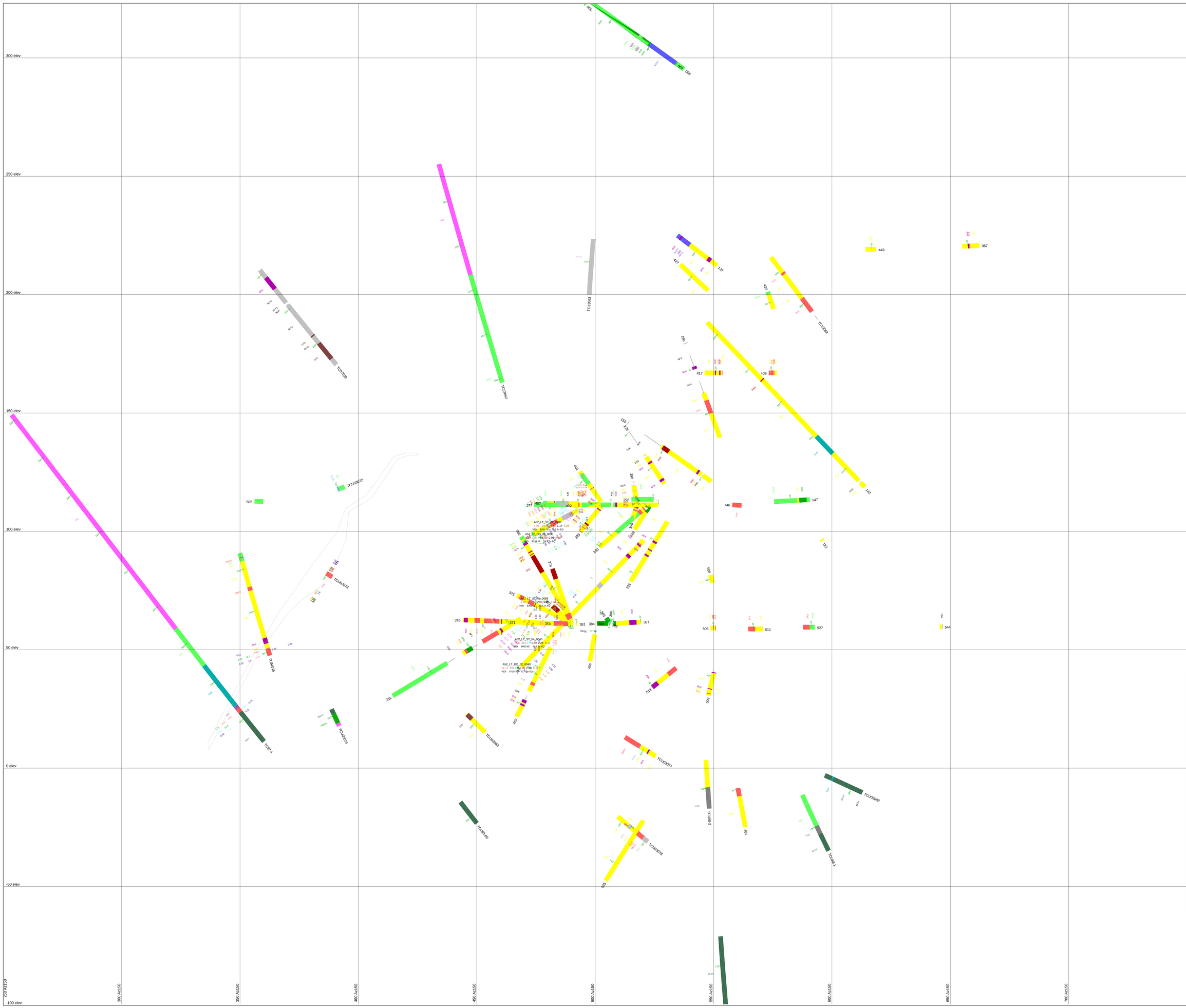
Scale 1:500

Drawn by: BA	Vert Az150 Sect 680; ±10m	21 Nov 2014


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Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapillii tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

DH Trace

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%)

2014 Stope Information

Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

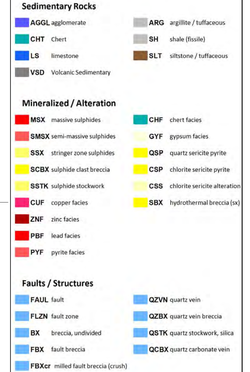
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 760

CHIEFTAIN METALS INC

Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 760; ±10m	21 Nov 2014

300 elev
250 elev
200 elev
150 elev
100 elev
50 elev
0 elev
-50 elev
-100 elev
250 Az150
300 Az150
350 Az150
400 Az150
450 Az150
500 Az150
550 Az150
600 Az150
650 Az150
700 Az150

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%)

UH Trace

2014 Stope Information

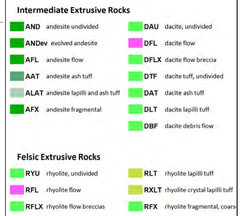
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

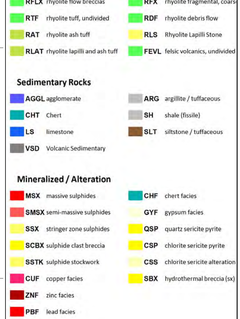
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 780a

CHIEFTAIN METALS INC

Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 780; ±10m	21 Nov 2014

-100 elev
-150 elev
-200 elev
-250 elev
-300 elev
-350 elev
-400 elev
-450 elev
-500 elev

100 Az150
150 Az150
200 Az150
250 Az150
300 Az150
350 Az150
400 Az150
450 Az150
500 Az150
550 Az150

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TCU03088
TCU03075
TCU03076
TCU03079
TCU03081
TCU11178
TCU11170
TCU88-9
TCU88-41
TCR7-4

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
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Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
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BAT	basalt ash tuff	BAHY	basalt hyaloclastite
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Intermediate Extrusive Rocks

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ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

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3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

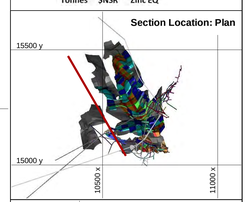
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Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

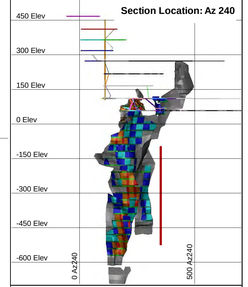
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 780b

CHIEFTAIN METALS INC

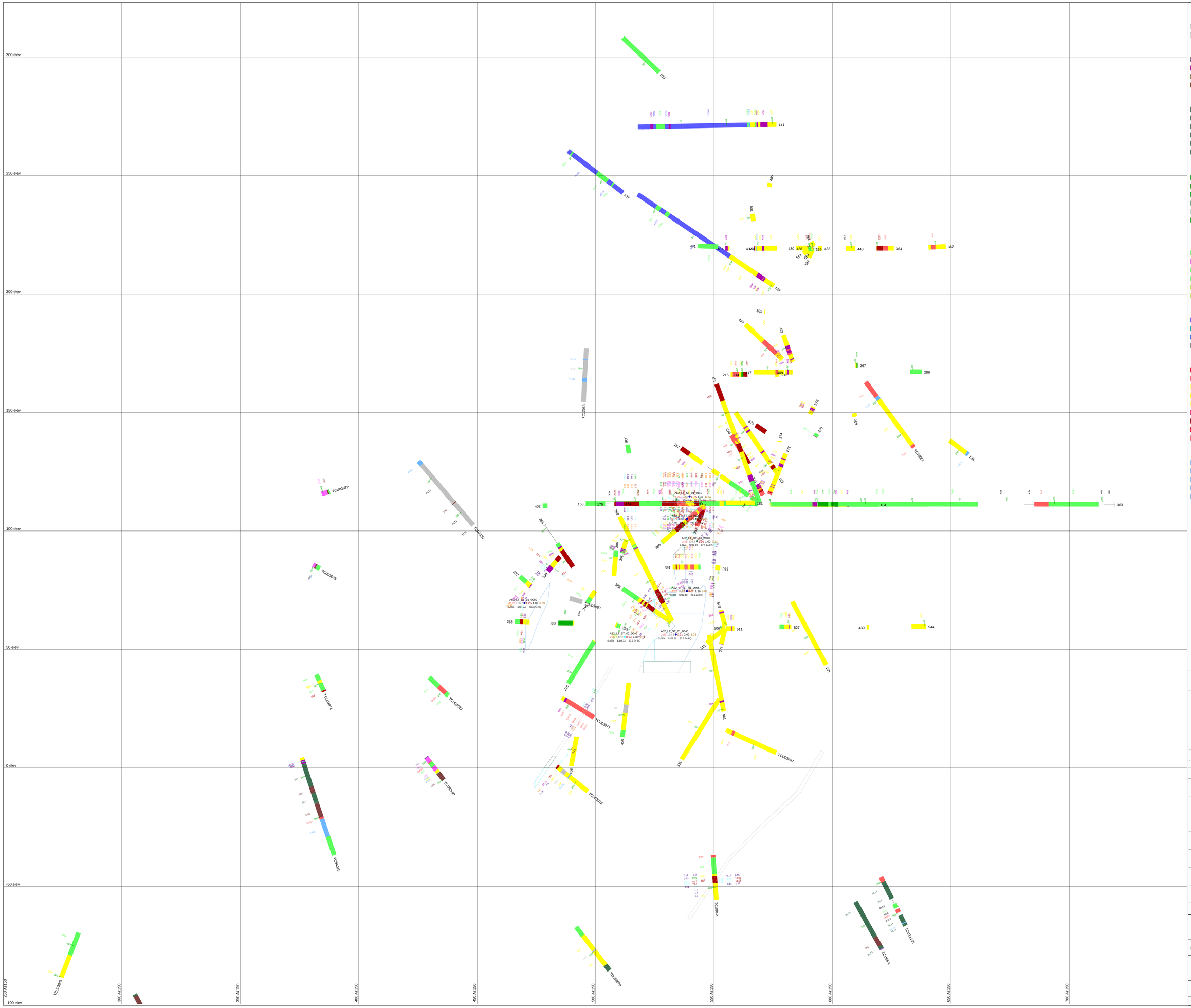
Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 780; ±10m	21 Nov 2014


300 elev
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150 elev
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Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) Drill Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

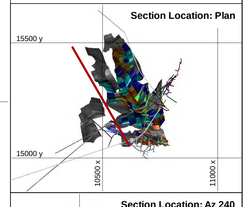
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

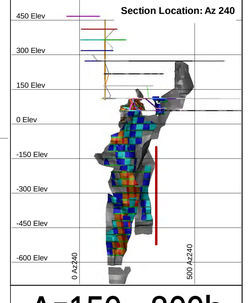
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 800b

CHIEFTAIN METALS INC

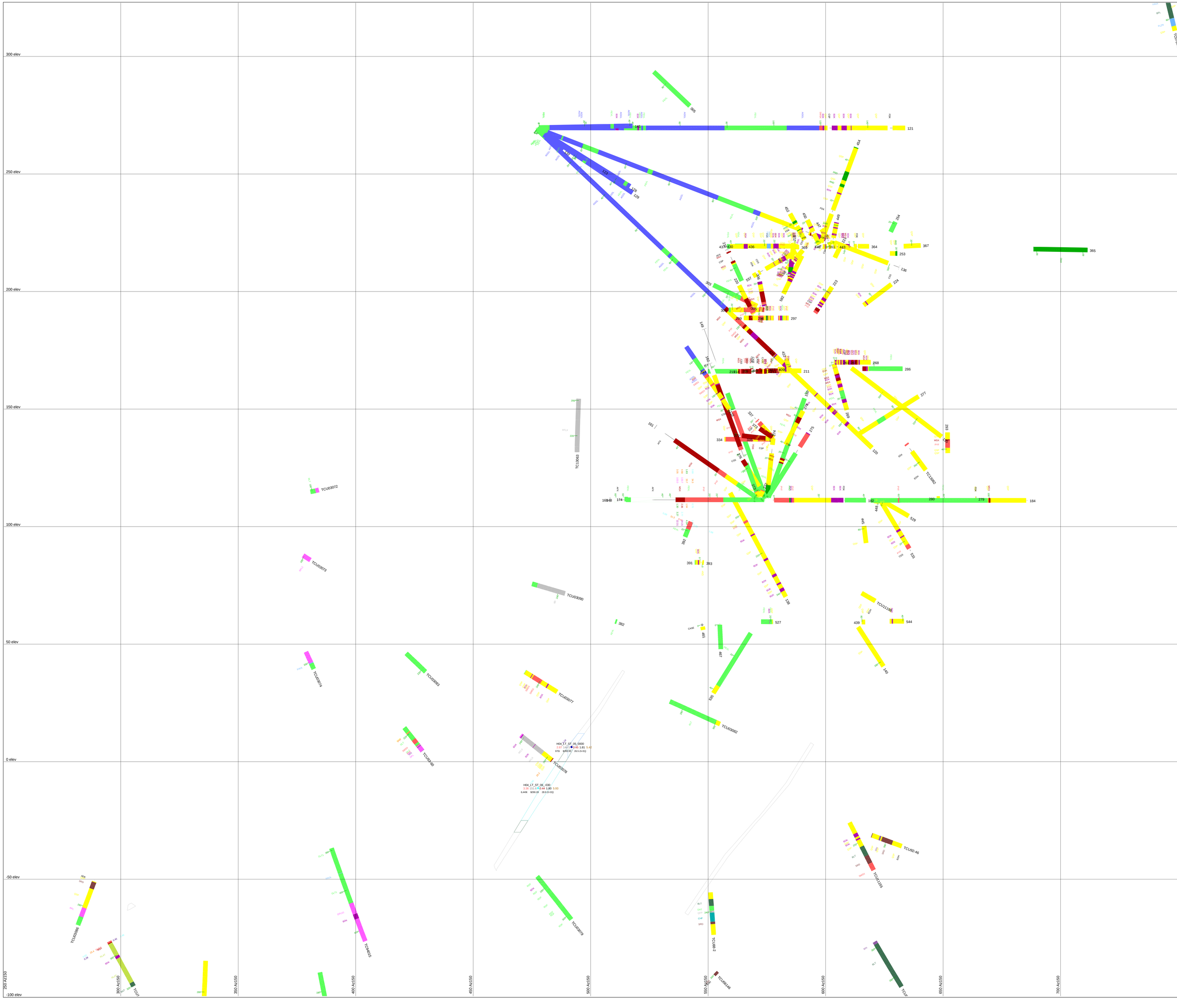
Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 800; ±10m	21 Nov 2014



Geological Legend

Surface / End

- CASE casing
- EOH end of hole
- OVB overburden
- LOST

Intrusive Rocks

- BIN basalt intrusion
- RDK rhyolite dyke
- BDK basalt dyke
- SRD rhyolite dyke, Sloko Fm
- ADK andesite dyke
- qfp quartz feldspar porphyry
- FDK felsic dyke

Mafic Extrusive Rocks

- BAU basalt undivided
- BLT basalt lapilli tuff
- BFL basalt flow
- BXLT basalt crystal lapilli tuff
- BFLX basalt flow breccia
- BFX basalt fragmental
- BTF basalt tuff, undivided
- BDF basalt debris flow
- BAT basalt ash tuff
- BAHY basalt hyaloclastite
- BLAT basalt lapilli and ash tuff

Intermediate Extrusive Rocks

- AND andesite undivided
- DAU dacite, undivided
- ANDev evolved andesite
- DFL dacite flow
- AFL andesite flow
- DFLX dacite flow breccia
- AAT andesite ash tuff
- DTF dacite tuff, undivided
- ALAT andesite lapilli and ash tuff
- DAT dacite ash tuff
- AFX andesite fragmental
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RLT rhyolite lapilli tuff
- RFL rhyolite flow
- RXLT rhyolite crystal lapilli tuff
- RFLX rhyolite flow breccias
- RFX rhyolite fragmental, coars
- RTF rhyolite tuff, undivided
- RDF rhyolite debris flow
- RAT rhyolite ash tuff
- RLS Rhyolite Lapilli Stone
- RLAT rhyolite lapilli and ash tuff
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- ARG argillite / tuffaceous
- CHT Chert
- SH shale (fissile)
- LS limestone
- SLT siltstone / tuffaceous
- VSD Volcanic Sedimentary

Mineralized / Alteration

- MSX massive sulphides
- CHF chert facies
- SMSX semi-massive sulphides
- GYF gypsum facies
- SSX stringer zone sulphides
- QSP quartz sericite pyrite
- SCBX sulphide clast breccia
- CSP chlorite sericite pyrite
- SSTK sulphide stockwork
- CSS chlorite sericite alteration
- CUF copper facies
- SBX hydrothermal breccia (sx)
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies

Faults / Structures

- FAUL fault
- QZVN quartz vein
- FLZN fault zone
- QZBX quartz vein breccia
- BX breccia, undivided
- QSTK quartz stockwork, silica
- FBX fault breccia
- QCBX quartz carbonate vein
- FBXcr milled fault breccia (crush)

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%) HoleName

2014 Stope Information

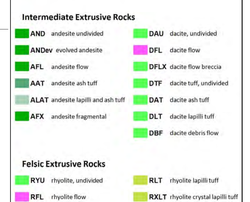
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name

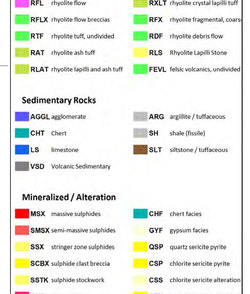
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 820a

CHIEFTAIN METALS INC

Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 820; ±10m	21 Nov 2014

-100 elev
-150 elev
-200 elev
-250 elev
-300 elev
-350 elev
-400 elev
-450 elev
-500 elev

100 Az150
150 Az150
200 Az150
250 Az150
300 Az150
350 Az150
400 Az150
450 Az150
500 Az150
550 Az150

TCU03088
TCU03085
TCU03084
TCU03075
TCU03081
TCU11162
TCU03-9
TCU03080
TCU11178
TCU11170
TCU03076
TCU27-4
TCU11175
TCU05-41
TCU05-59
TCU04121
TCU11180
TCU11186
TCU06-27

Geological Legend

Surface / End

- CASE casing
- EOH end of hole
- OVB overburden
- LOST

Intrusive Rocks

- BIN basalt intrusion
- RDK rhyolite dyke
- BDK basalt dyke
- SRD rhyolite dyke, Sloko Fm
- ADK andesite dyke
- qfp quartz feldspar porphyry
- FDK felsic dyke

Mafic Extrusive Rocks

- BAU basalt undivided
- BLT basalt lapilli tuff
- BFL basalt flow
- BXLT basalt crystal lapilli tuff
- BFLX basalt flow breccia
- BFX basalt fragmental
- BTF basalt tuff, undivided
- BDF basalt debris flow
- BAT basalt ash tuff
- BAHY basalt hyaloclastite
- BLAT basalt lapilli and ash tuff

Intermediate Extrusive Rocks

- AND andesite undivided
- DAU dacite, undivided
- ANDev evolved andesite
- DFL dacite flow
- AFL andesite flow
- DFLX dacite flow breccia
- AAT andesite ash tuff
- DTF dacite tuff, undivided
- ALAT andesite lapilli and ash tuff
- DAT dacite ash tuff
- AFX andesite fragmental
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RLT rhyolite lapilli tuff
- RFL rhyolite flow
- RXLT rhyolite crystal lapilli tuff
- RFLX rhyolite flow breccias
- RFX rhyolite fragmental, coars
- RTF rhyolite tuff, undivided
- RDF rhyolite debris flow
- RAT rhyolite ash tuff
- RLS Rhyolite Lapilli Stone
- RLAT rhyolite lapilli and ash tuff
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- ARG argillite / tuffaceous
- CHT Chert
- SH shale (fissile)
- LS limestone
- SLT siltstone / tuffaceous
- VSD Volcanic Sedimentary

Mineralized / Alteration

- MSX massive sulphides
- CHF chert facies
- SMSX semi-massive sulphides
- GYF gypsum facies
- SSX stringer zone sulphides
- QSP quartz sericite pyrite
- SCBX sulphide clast breccia
- CSP chlorite sericite pyrite
- SSTK sulphide stockwork
- CSS chlorite sericite alteration
- CUF copper facies
- SBX hydrothermal breccia (sx)
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies

Faults / Structures

- FAUL fault
- QZVN quartz vein
- FLZN fault zone
- QZBX quartz vein breccia
- BX breccia, undivided
- QSTK quartz stockwork, silica
- FBX fault breccia
- QCBX quartz carbonate vein
- FBXcr milled fault breccia (crush)

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%) DH Trace

2014 Stope Information

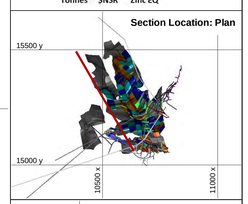
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name

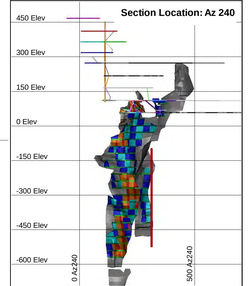
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 820b

CHIEFTAIN METALS INC

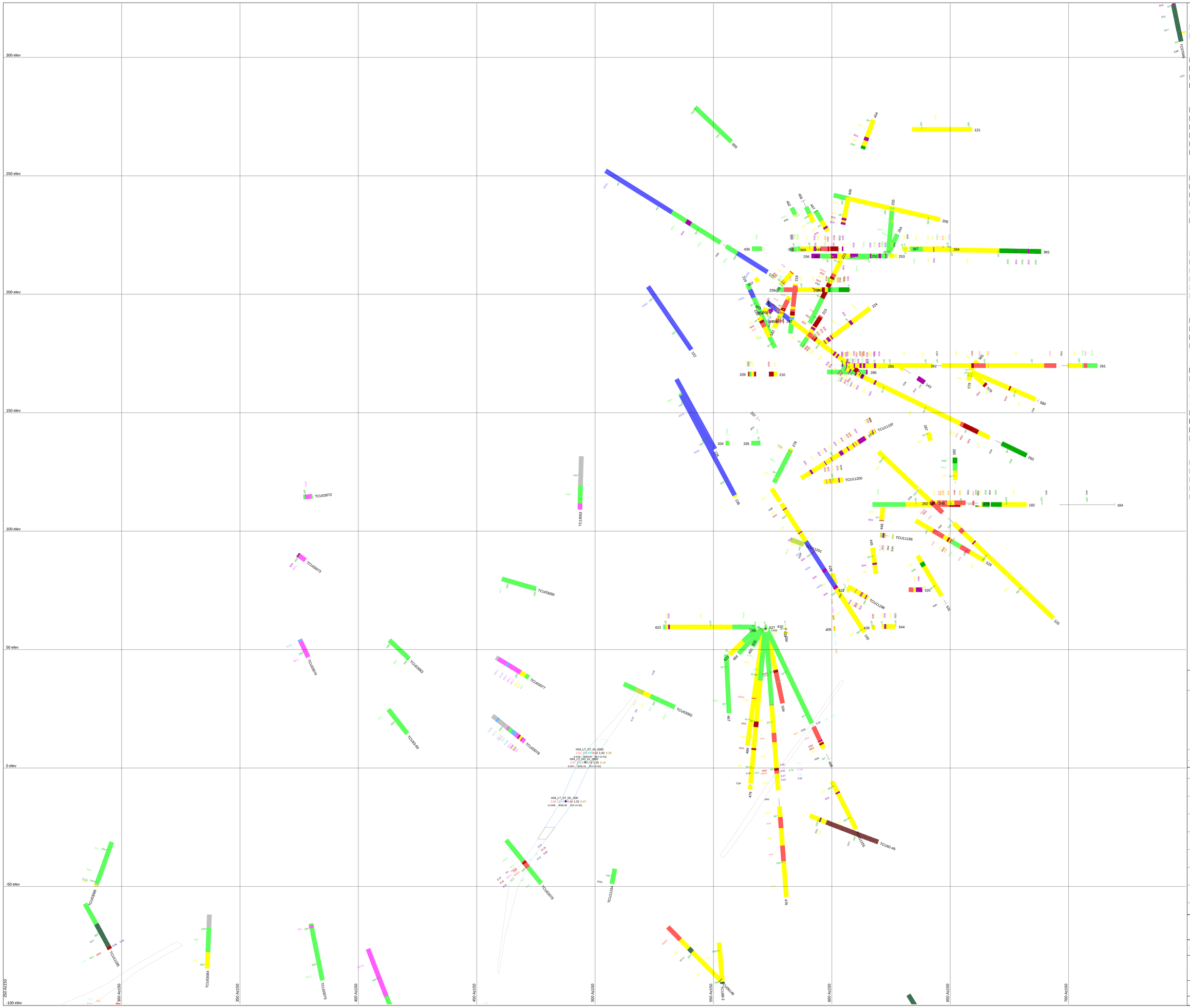
Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 820; ±10m	21 Nov 2014



Geological Legend

Surface / End

- CASE casing
- OVB overburden
- EOH end of hole
- LOST

Intrusive Rocks

- BIN basalt intrusion
- BDK basalt dyke
- ADK andesite dyke
- FDK felsic dyke
- RDK rhyolite dyke
- SRD rhyolite dyke, Sloko Fm
- qfp quartz feldspar porphyry

Mafic Extrusive Rocks

- BAU basalt undivided
- BFL basalt flow
- BFLX basalt flow breccia
- BTF basalt tuff, undivided
- BAT basalt ash tuff
- BLAT basalt lapilli and ash tuff
- BLT basalt lapilli tuff
- BXLT basalt crystal lapilli tuff
- BFX basalt fragmental
- BDF basalt debris flow
- BAHY basalt hyaloclastite

Intermediate Extrusive Rocks

- AND andesite undivided
- ANDev evolved andesite
- AFL andesite flow
- AAT andesite ash tuff
- ALAT andesite lapilli and ash tuff
- AFX andesite fragmental
- DAU dacite, undivided
- DFL dacite flow
- DFLX dacite flow breccia
- DTF dacite tuff, undivided
- DAT dacite ash tuff
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RFL rhyolite flow
- RFLX rhyolite flow breccias
- RTF rhyolite tuff, undivided
- RAT rhyolite ash tuff
- RLAT rhyolite lapilli and ash tuff
- RLT rhyolite lapilli tuff
- RXLT rhyolite crystal lapilli tuff
- RFX rhyolite fragmental, coars
- RDF rhyolite debris flow
- RLS Rhyolite Lapilli Stone
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- CHT Chert
- LS limestone
- VSD Volcanic Sedimentary
- ARG argillite / tuffaceous
- SH shale (fissile)
- SLT siltstone / tuffaceous

Mineralized / Alteration

- MSX massive sulphides
- SMSX semi-massive sulphides
- SSX stringer zone sulphides
- SCBX sulphide clast breccia
- SSTK sulphide stockwork
- CUF copper facies
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies
- CHF chert facies
- GYF gypsum facies
- QSP quartz sericite pyrite
- CSP chlorite sericite pyrite
- CSS chlorite sericite alteration
- SBX hydrothermal breccia (sx)

Faults / Structures

- FAUL fault
- FLZN fault zone
- BX breccia, undivided
- FBX fault breccia
- FBXcr milled fault breccia (crush)
- QZVN quartz vein
- QZBX quartz vein breccia
- QSTK quartz stockwork, silica
- QCBX quartz carbonate vein

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%)

2014 Stope Information

- Development
- Cut and Fill
- Longitudinal
- Primary
- Secondary

Stope_Name

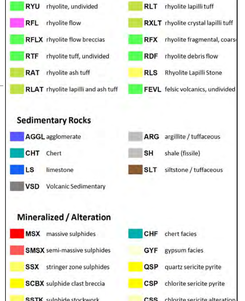
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 840a

CHIEFTAIN METALS INC

Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 840; ±10m	21 Nov 2014

-100 elev
-150 elev
-200 elev
-250 elev
-300 elev
-350 elev
-400 elev
-450 elev
-500 elev

100 Az150
150 Az150
200 Az150
250 Az150
300 Az150
350 Az150
400 Az150
450 Az150
500 Az150
550 Az150

TCU03888
TCU03885
TCU11187
TCU03890
TCU03887
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TCU89-16
TCU89-15
TCU11169
TCU11181
TCU89-59
TCU89-58
TCU89-14
TCU89-6

H04_LT_ST_04_-210
1.47 81.3 0.15 0.62 4.46
2228t $151.30 15.1 Zn EQ

H04_LT_DO_02_-210
1.69 85.4 0.21 0.73 5.17
1,830t $183.70 18.3 Zn EQ

H04_LT_ST_03_-240
2.53 95.4 0.35 0.70 5.82
5,642t $212.84 21.2 Zn EQ

H04_LT_DO_01_-240
3.42 81.1 0.27 0.50 4.80
1,765t $186.96 18.6 Zn EQ

H04_LT_ST_01_-270
2.43 82.0 0.67 0.54 5.13
8,999t $106.77 10.5 Zn EQ

H04_LT_ST_02_-300
4.15 80.1 0.60 0.39 7.02
7,716t $297.67 29.7 Zn EQ

H04_LT_ST_02_-330
6.86 103.7 1.04 0.65 2.95
30,806t $450.54 44.8 Pb EQ

H04_LT_ST_02_-360
2.87 72.9 1.02 0.09 9.54
9,447t $270.67 27.5 Zn EQ

H04_LT_DO_01_-360
3.78 95.7 1.20 0.12 14.33
5,667t $359.16 26.8 Zn EQ

H04_LT_ST_02_-390
2.79 105.1 0.82 1.66 7.56
12,792t $295.67 29.4 Zn EQ

H04_LT_DO_01_-390
3.28 120.7 1.04 0.53 7.03
5,021t $298.41 28.7 Zn EQ

H04_LT_DO_01_-420
2.43 83.1 0.77 1.65 6.42
3,479t $198.61 19.8 Zn EQ

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%) INT Trace

2014 Stope Information

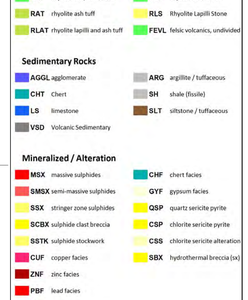
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)
Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 840b

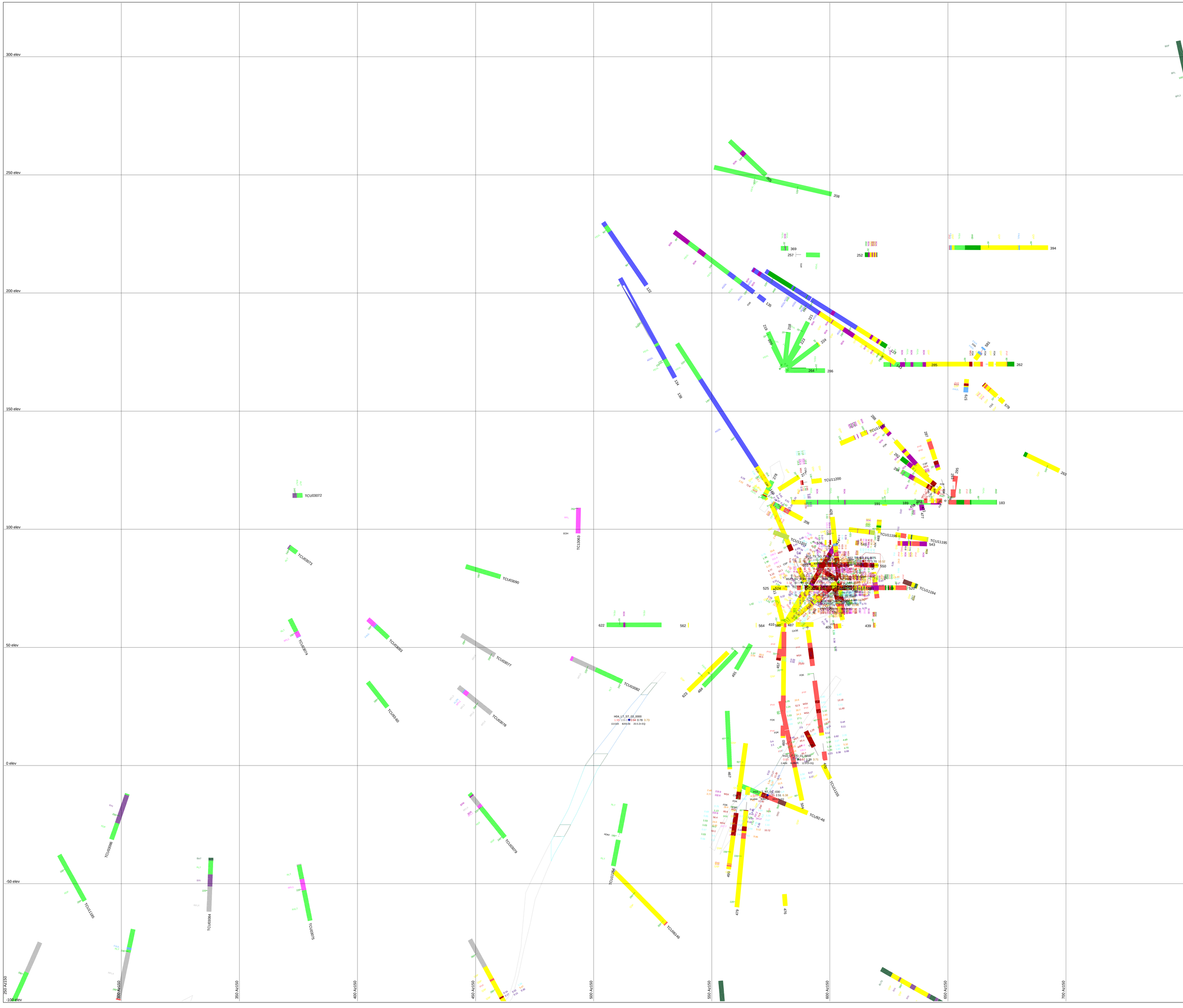
CHIEFTAIN METALS INC

Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres
Scale 1:500

Drawn by: BA	Vert Az150 Sect B40; ±10m	21 Nov 2014



Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%)

Interval

2014 Stope Information

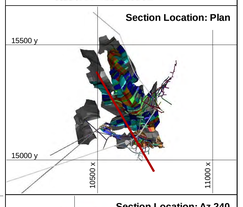
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name

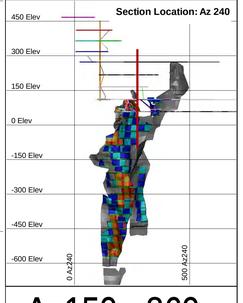
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 860a

CHIEFTAIN METALS INC

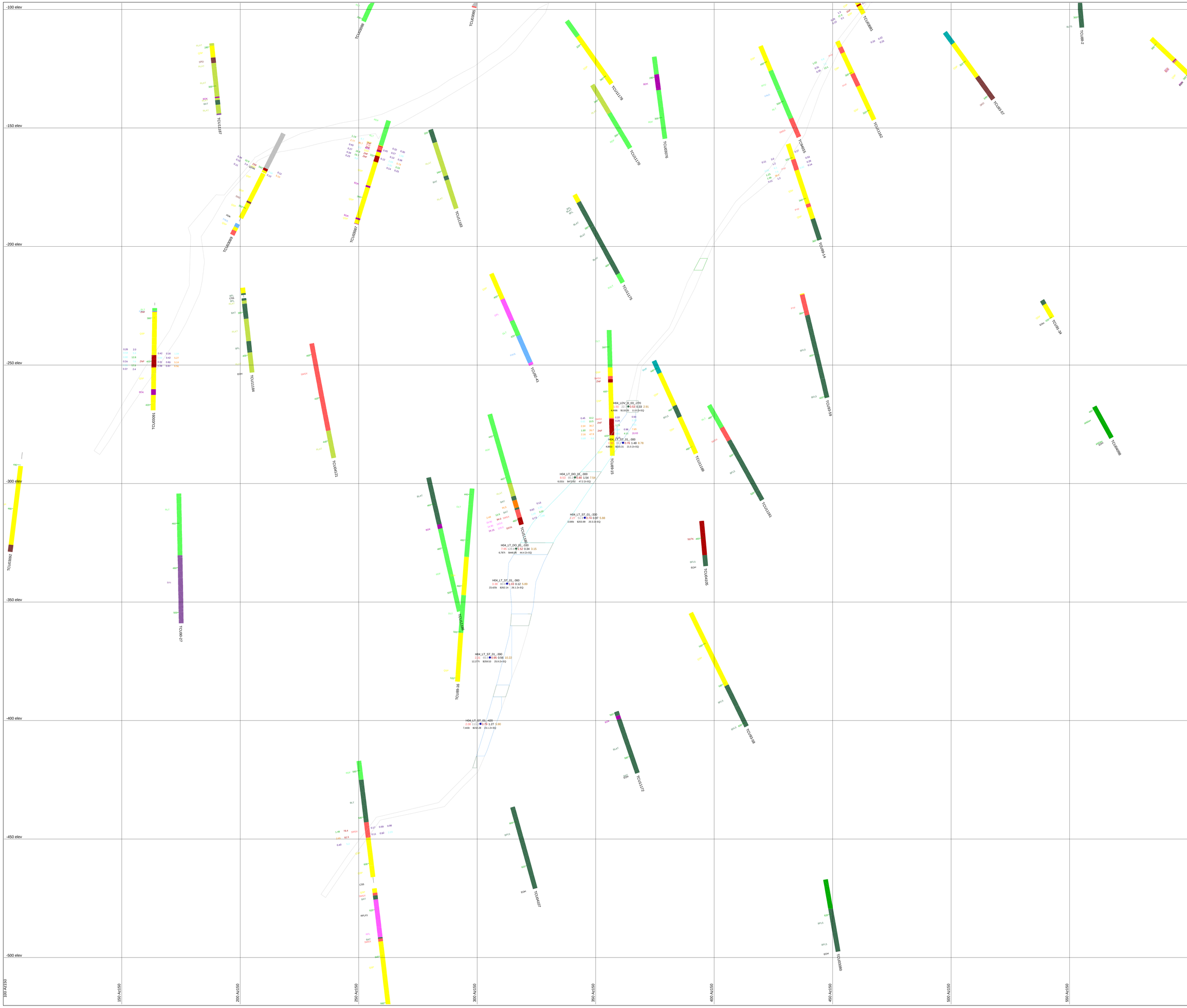
Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 860; ±10m	21 Nov 2014



Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
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suffix codes

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2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) **Lithology** Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

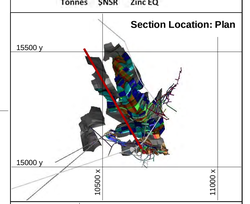
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

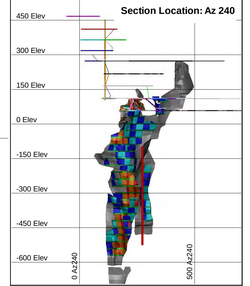
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 860b

CHIEFTAIN METALS INC

Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 860; ±10m	21 Nov 2014

Geological Legend

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ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

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RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

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suffix codes

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2	quartz	fp	feldspar porphyry
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4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

DH Trace

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%)

2014 Stope Information

Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

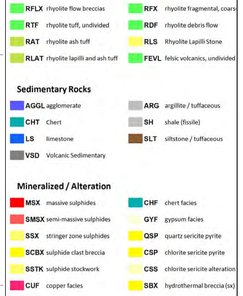
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 880a

CHIEFTAIN METALS INC

Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

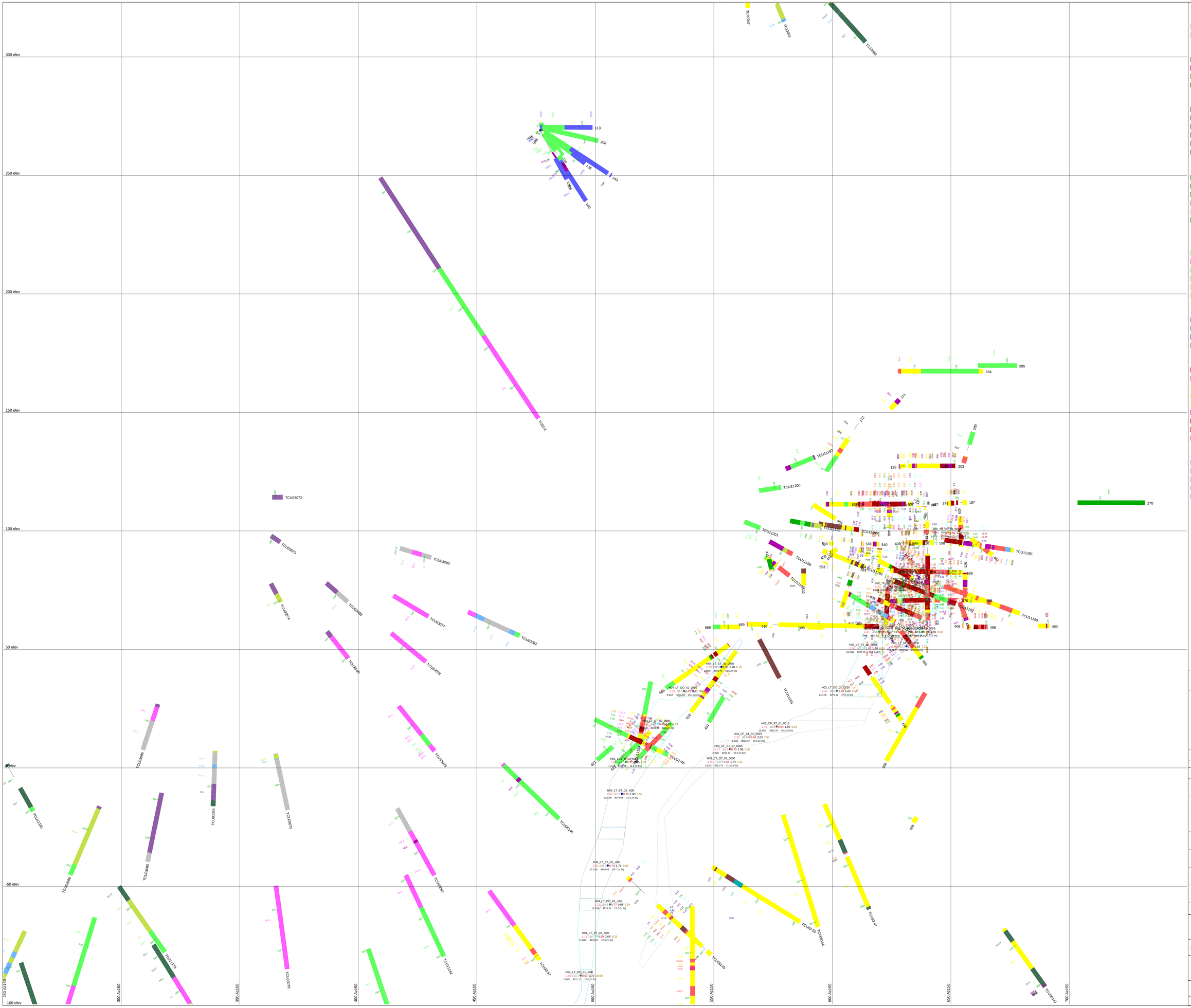
-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 880; ±10m	21 Nov 2014

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-200 elev
-250 elev
-300 elev
-350 elev
-400 elev
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Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) **Lithology** Depth(m) **DH Trace** Cu(%) Pb (%) Zn(%)

2014 Stope Information

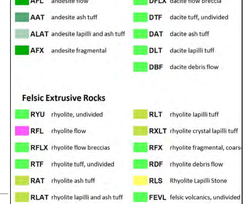
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

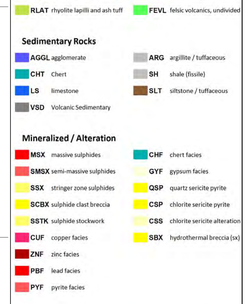
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 900a

CHIEFTAIN METALS INC

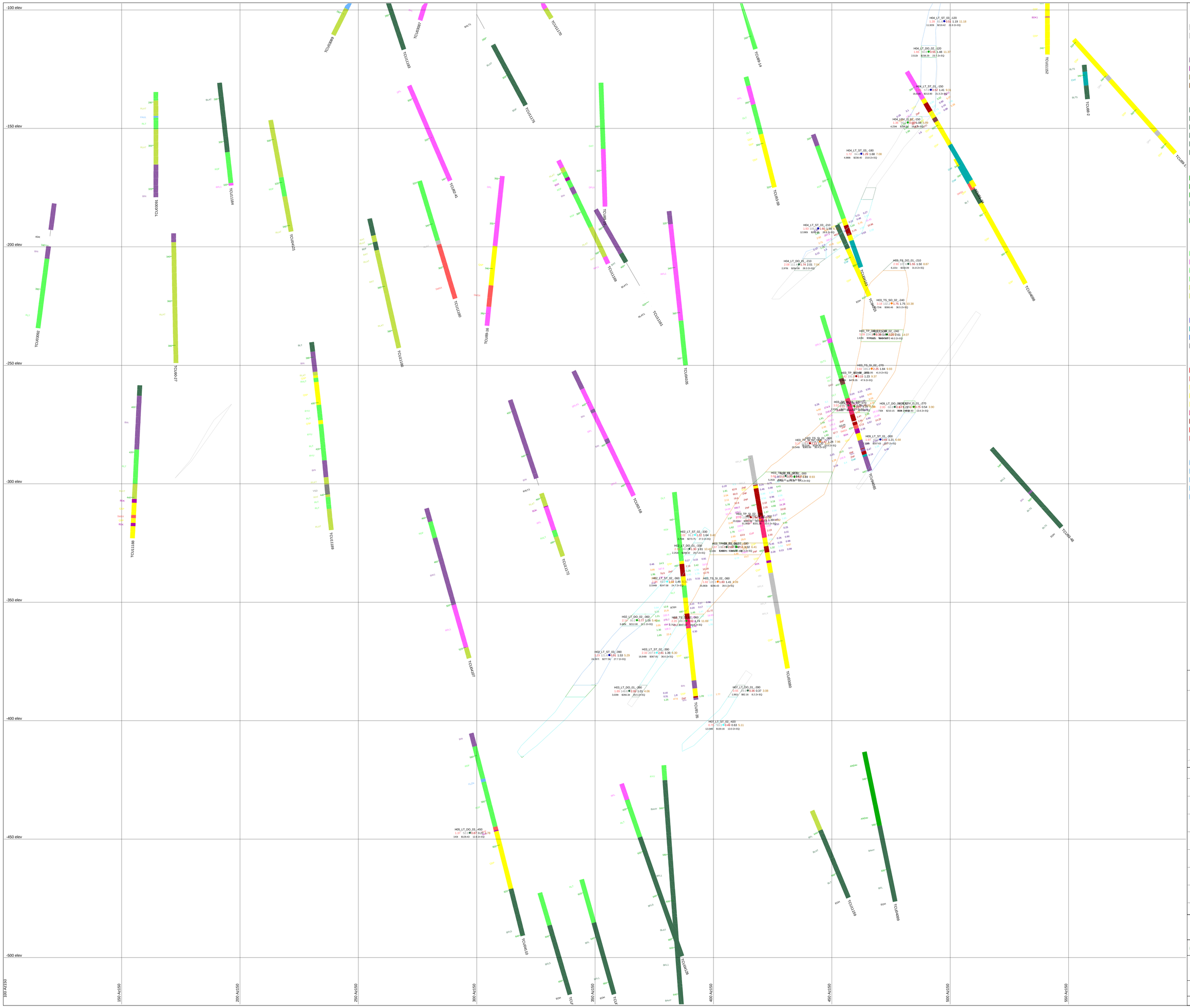
Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 900; ±10m	21 Nov 2014



Geological Legend

Surface / End

- CASE casing
- OVB overburden
- EOH end of hole
- LOST

Intrusive Rocks

- BIN basalt intrusion
- BDK basalt dyke
- ADK andesite dyke
- FDK felsic dyke
- RDK rhyolite dyke
- SRD rhyolite dyke, Sloko Fm
- qfp quartz feldspar porphyry

Mafic Extrusive Rocks

- BAU basalt undivided
- BFL basalt flow
- BFLX basalt flow breccia
- BTF basalt tuff, undivided
- BAT basalt ash tuff
- BLAT basalt lapilli and ash tuff
- BLT basalt lapilli tuff
- BXLT basalt crystal lapilli tuff
- BFX basalt fragmental
- BDF basalt debris flow
- BAHY basalt hyaloclastite

Intermediate Extrusive Rocks

- AND andesite undivided
- ANDev evolved andesite
- AFL andesite flow
- AAT andesite ash tuff
- ALAT andesite lapilli and ash tuff
- AFX andesite fragmental
- DAU dacite, undivided
- DFL dacite flow
- DFLX dacite flow breccia
- DTF dacite tuff, undivided
- DAT dacite ash tuff
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RFL rhyolite flow
- RFLX rhyolite flow breccias
- RTF rhyolite tuff, undivided
- RAT rhyolite ash tuff
- RLAT rhyolite lapilli and ash tuff
- RLT rhyolite lapilli tuff
- RXLT rhyolite crystal lapilli tuff
- RFX rhyolite fragmental, coars
- RDF rhyolite debris flow
- RLS Rhyolite Lapilli Stone
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- CHT Chert
- LS limestone
- VSD Volcanic Sedimentary
- ARG argillite / tuffaceous
- SH shale (fissile)
- SLT siltstone / tuffaceous

Mineralized / Alteration

- MSX massive sulphides
- SMSX semi-massive sulphides
- SSX stringer zone sulphides
- SCBX sulphide clast breccia
- SSTK sulphide stockwork
- CUF copper facies
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies
- CHF chert facies
- GYF gypsum facies
- QSP quartz sericite pyrite
- CSP chlorite sericite pyrite
- CSS chlorite sericite alteration
- SBX hydrothermal breccia (sx)

Faults / Structures

- FAUL fault
- FLZN fault zone
- BX breccia, undivided
- FBX fault breccia
- FBXcr milled fault breccia (crush)
- QZVN quartz vein
- QZBX quartz vein breccia
- QSTK quartz stockwork, silica
- QCBX quartz carbonate vein

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

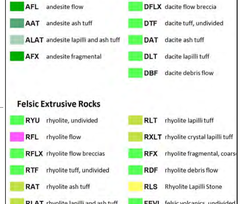
- Development
- Cut and Fill
- Longitudinal
- Primary
- Secondary

Stope_Name

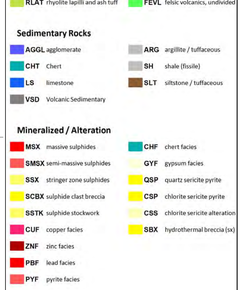
Au (g/i) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 900b

CHIEFTAIN METALS INC

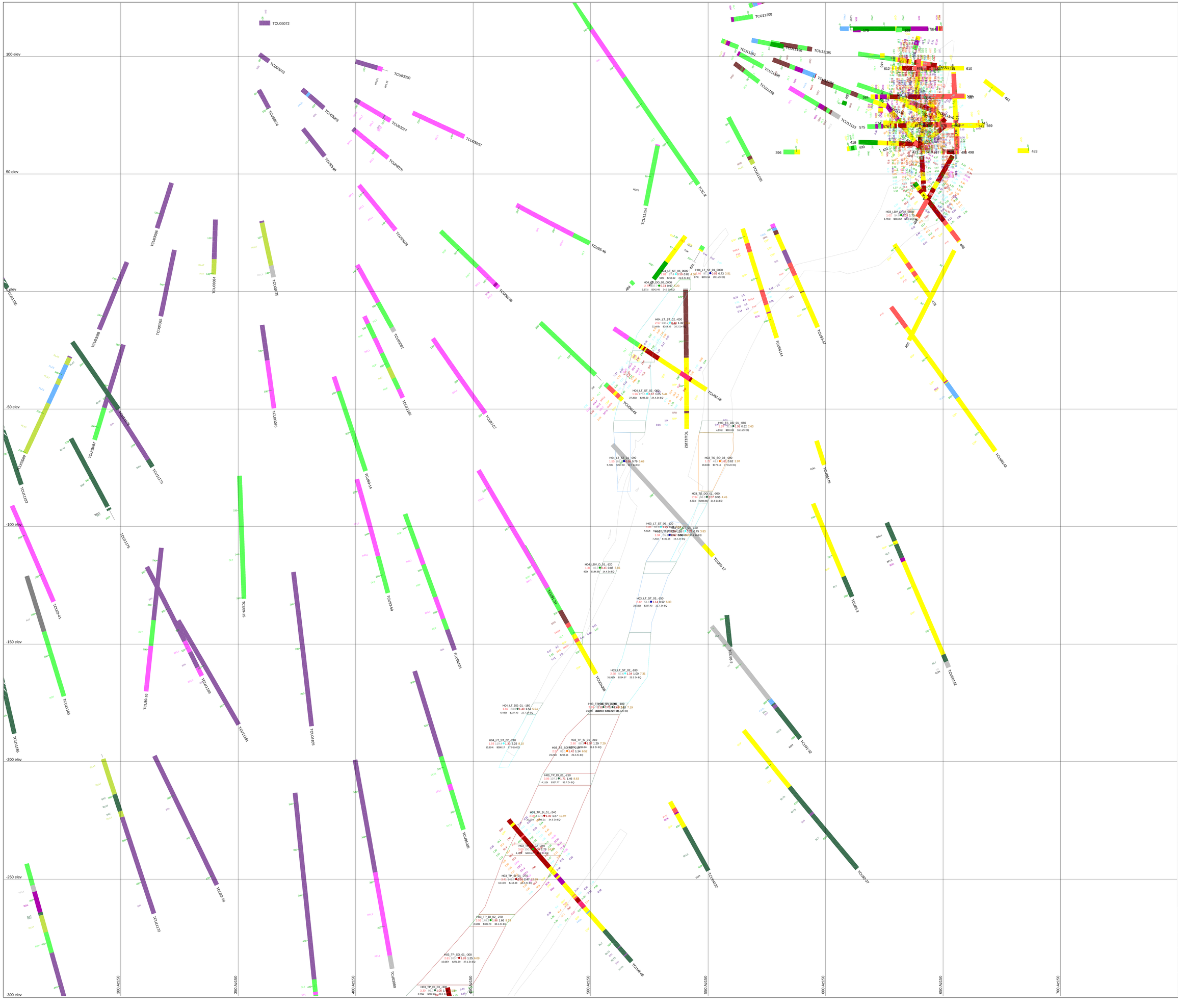
Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 900; ±10m	21 Nov 2014


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-50 elev
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-300 elev

-350 elev

-400 elev

-450 elev

-500 elev

-550 elev

-600 elev

-650 elev

-700 elev

50 Az150

100 Az150

150 Az150

200 Az150

250 Az150

300 Az150

350 Az150

400 Az150

450 Az150

500 Az150

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

Development

Cut and Fill

Longitudinal

Primary

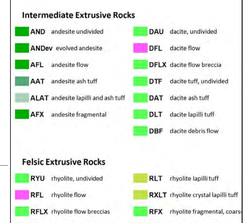
Secondary

Stope_Name

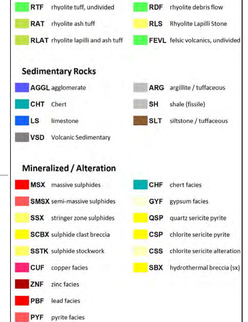
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 920b

CHIEFTAIN METALS INC

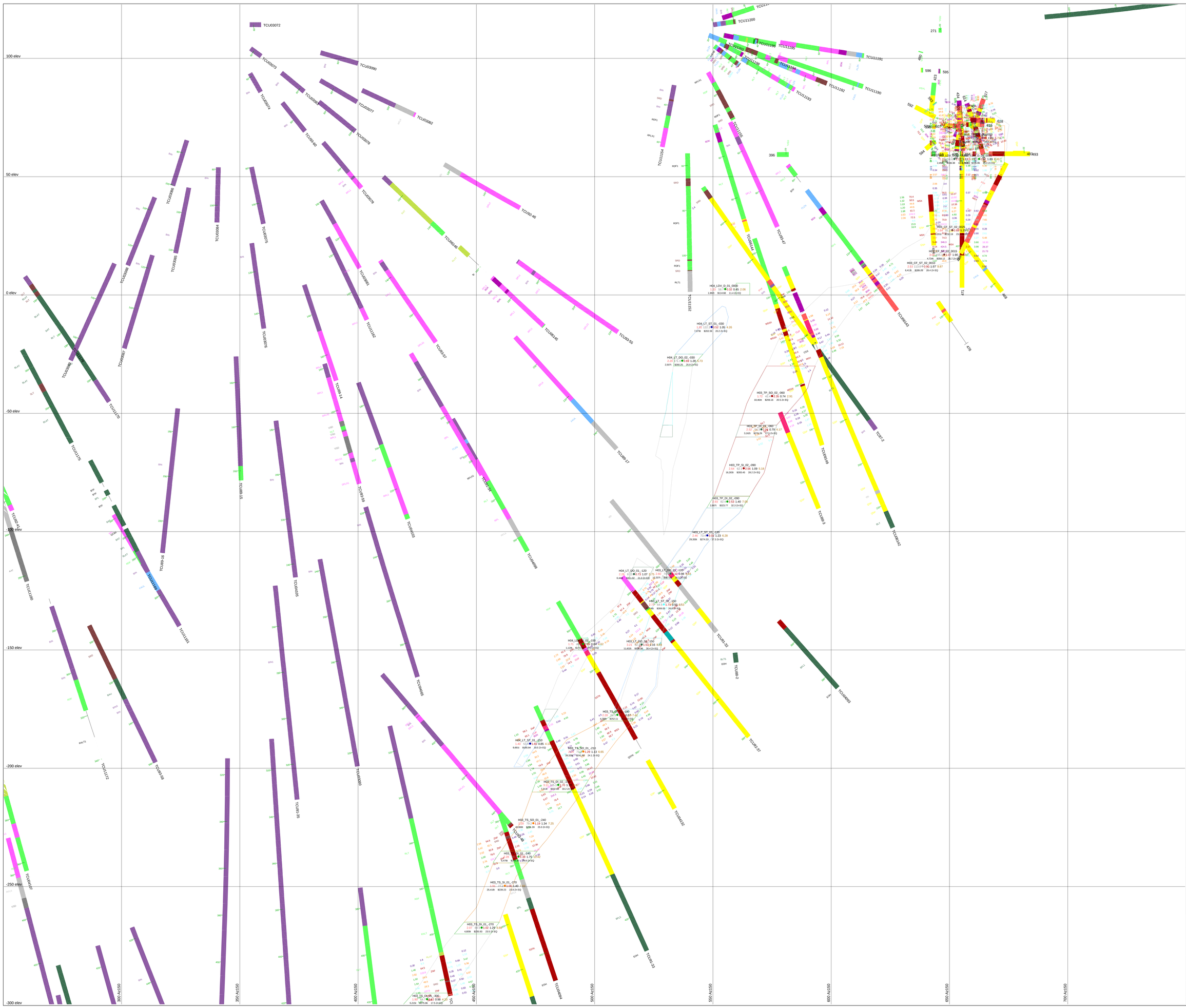
Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

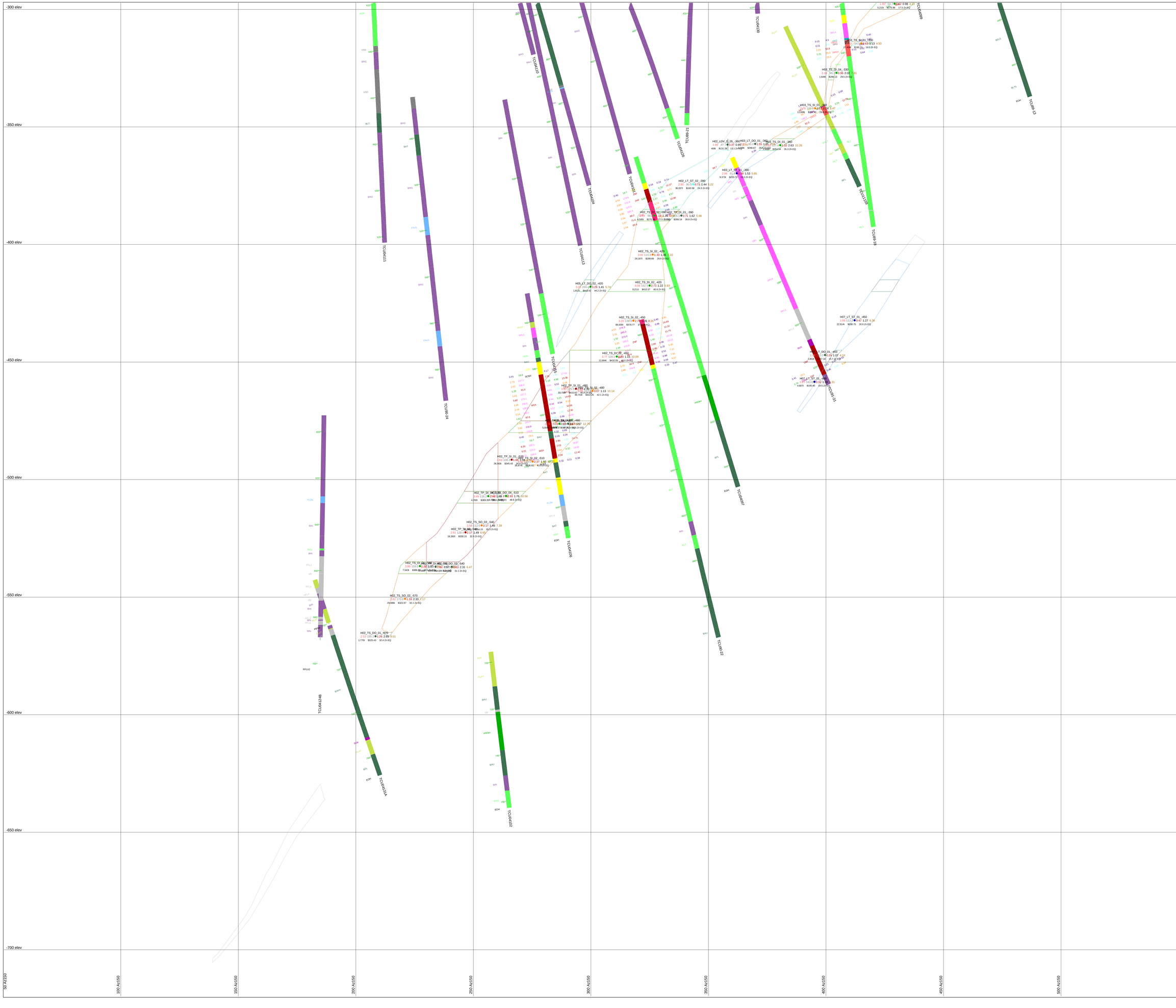
Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 920; ±10m	21 Nov 2014


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Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DDH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

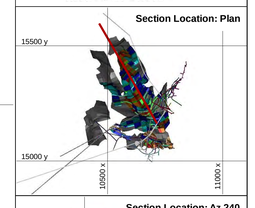
Development
Cut and Fill
Primary
Longitudinal
Secondary

Stope_Name

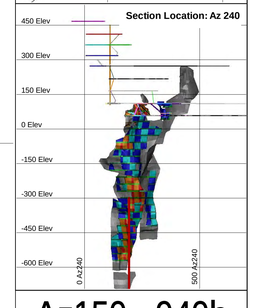
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 940b

CHIEFTAIN METALS INC

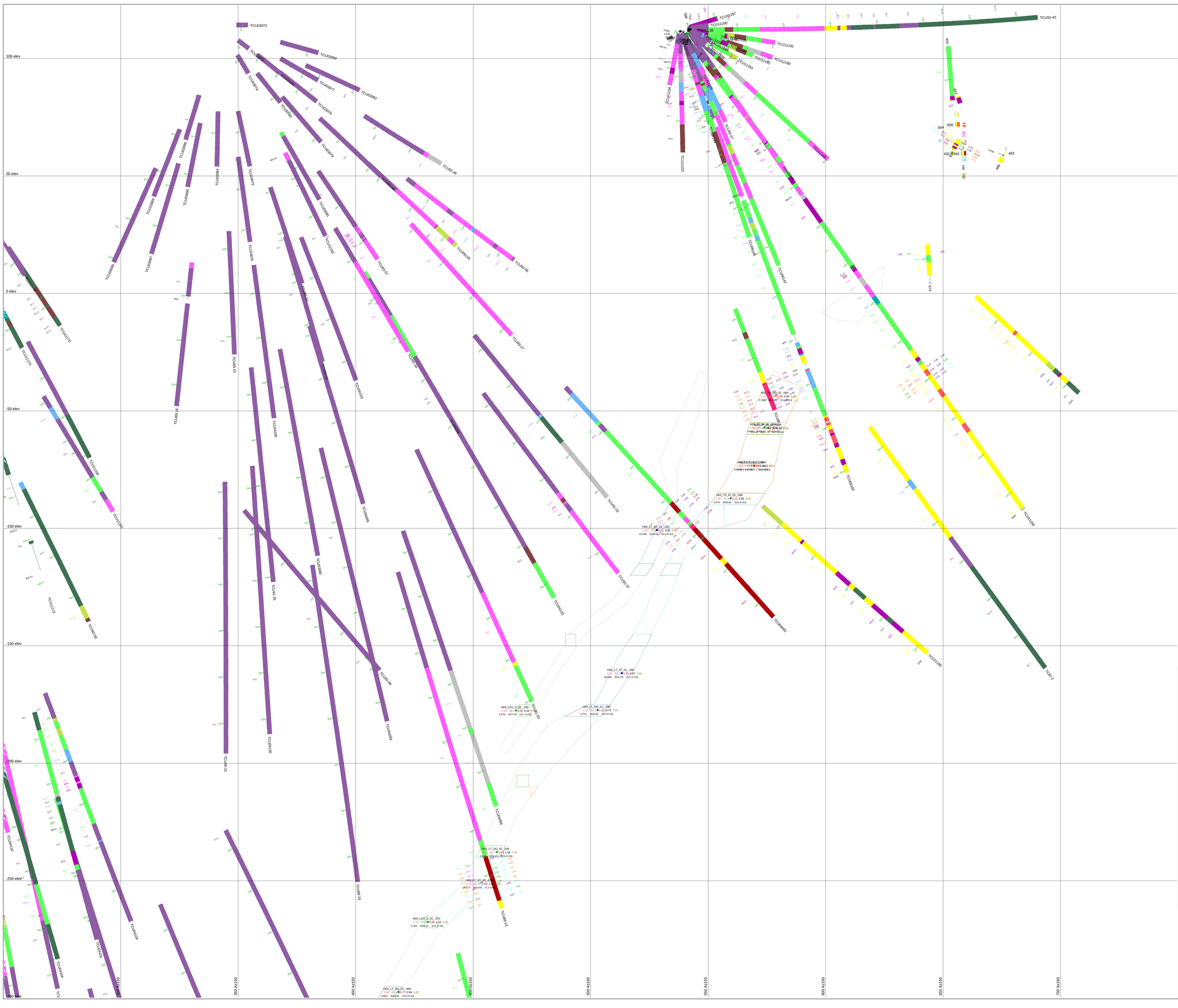
Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

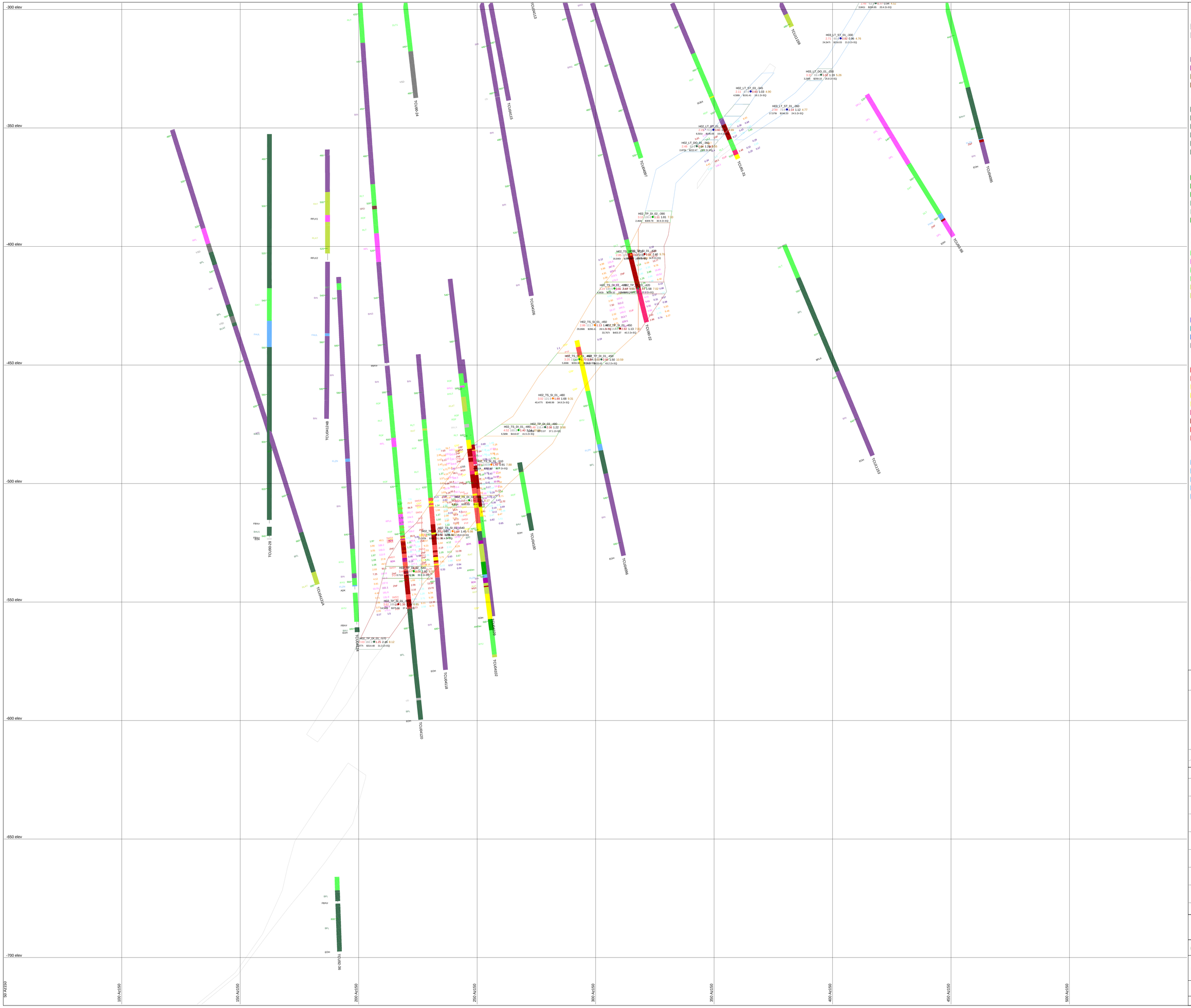
Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

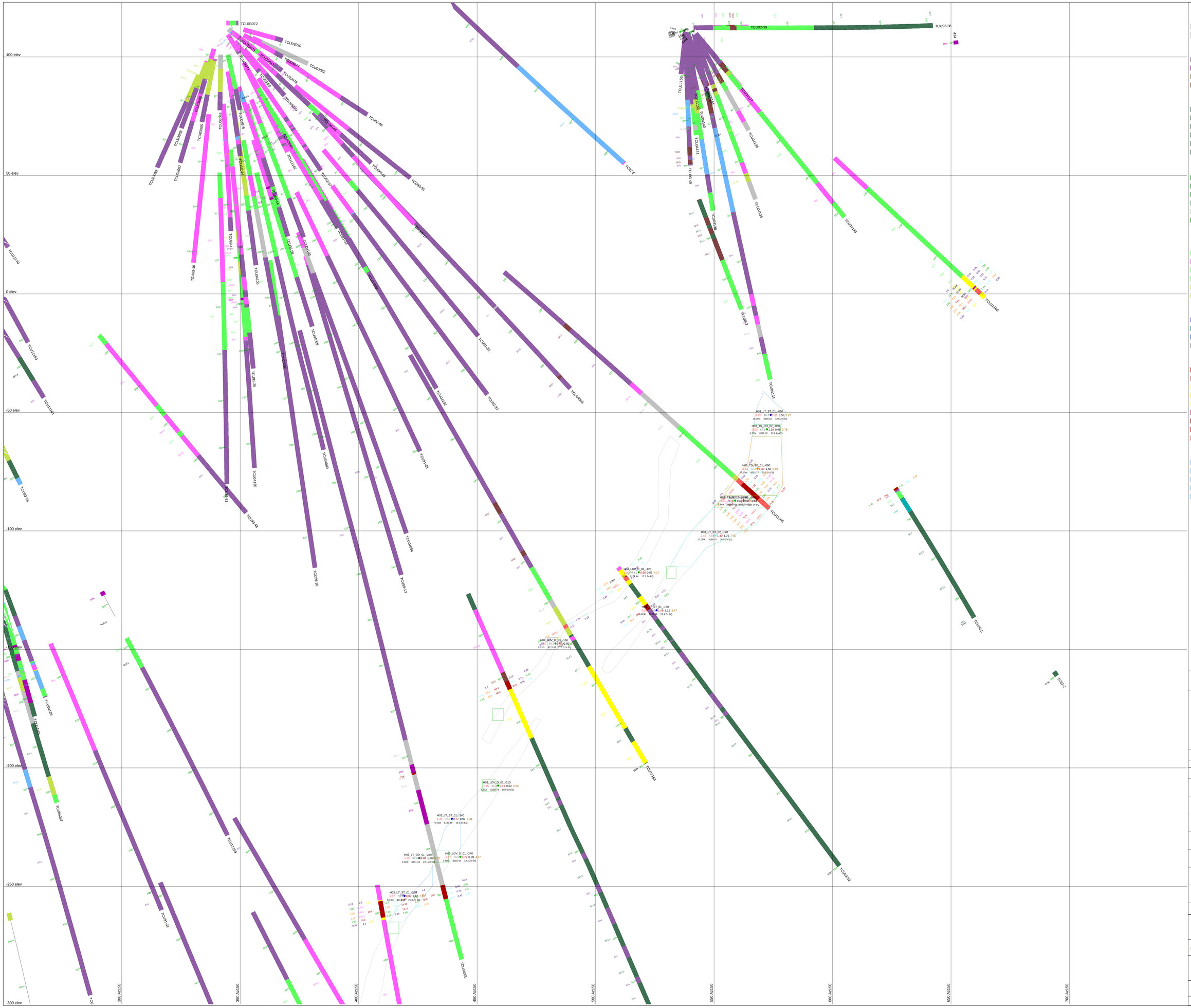
-5 0 5 10 15 20 25 metres

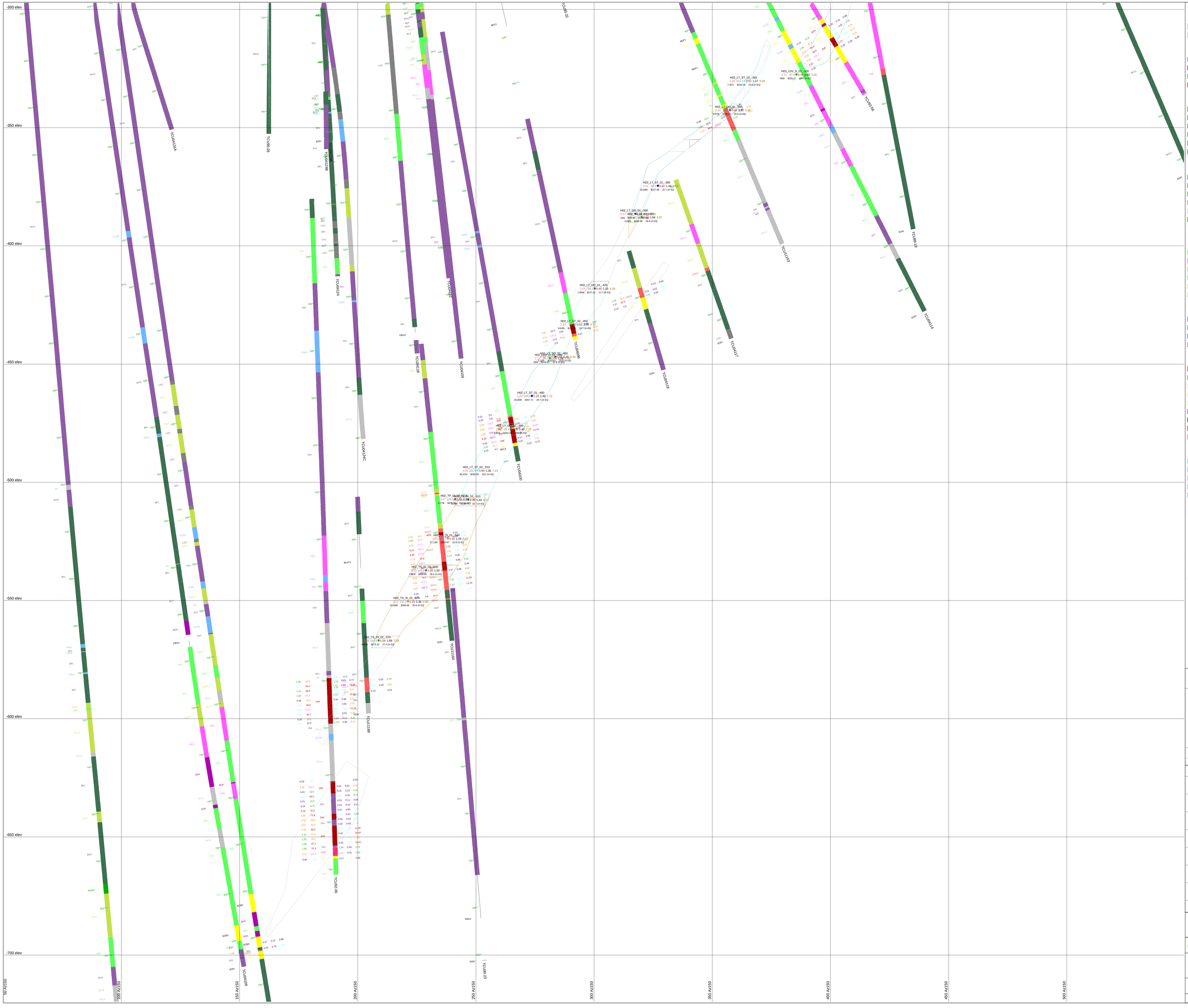
Scale 1:500

Drawn by: BA	Vert Az150 Sect 940; ±10m	21 Nov 2014


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TCU05691
TCU05692
TCU05693
TCU05694
TCU05695
TCU05696
TCU05697
TCU05698
TCU05699
TCU05700
TCU05701
TCU05702
TCU05703
TCU05704
TCU05705
TCU05706
TCU05707
TCU05708
TCU05709
TCU05710
TCU05



Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%)

2014 Stope Information

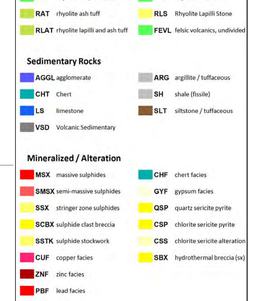
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)
Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 980b

CHIEFTAIN METALS INC

Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 980; ±10m	21 Nov 2014

100 elev

50 elev

0 elev

-50 elev

-100 elev

-150 elev

-200 elev

-250 elev

-300 elev

300 Az150

350 Az150

400 Az150

450 Az150

500 Az150

550 Az150

600 Az150

650 Az150

700 Az150

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

DH Type

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%)

2014 Stope Information

Development

Cut and Fill — Primary

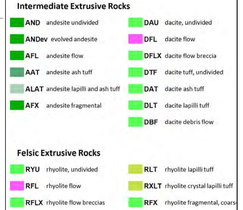
Longitudinal — Secondary

Stope_Name

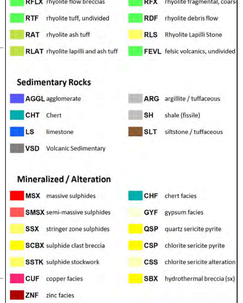
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 1000a

CHIEFTAIN METALS INC

Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

Scale 1:500 (-5 0 5 10 15 20 25 metres)

Drawn by: BA	Vert Az150 Sect 1000; ±10m	21 Nov 2014

-300 elev

-350 elev

-400 elev

-450 elev

-500 elev

-550 elev

-600 elev

-650 elev

-700 elev

50 Az150

100 Az150

150 Az150

200 Az150

250 Az150

300 Az150

350 Az150

400 Az150

450 Az150

500 Az150

TCU92-36

TCU01100

TCU04117

TCU04119

TCU09-53

TCU11104

TCU11169

TCU04112

TCU01-30

TCU04123

TCU08-21

H02_LT_ST_01_315
5.85 213 0.73 2.51 14.09
1,367 854,613 53.9 Zn EQ

H02_LT_DD_01_319
1.47 [illegible] 0.50 1.78 10.17
2,598 $899.05 ≤58.0 Zn EQ

H02_LT_ST_01_345
3.41 154.1 0.46 1.45 8.20
6,548 $551.99 ≤92 Zn EQ

H02_LT_ST_01_485
21.9 0.83
1,856 $3,349 Zn EQ

H02_LT_DD_01_510
28.9 1271 0.74 1.69 7.75
2,449 $292.64 29.4 Zn EQ

H02_LT_DD_01_555
1.22 0.05
3,236 $33.64 29.2 Zn EQ

H02_LT_ST_01_570
3.27 134.9 2.15 0.85 4.28
16,340 $359.30 31.5 Zn EQ

H02_LT_DD_01_570
1.08 113.9 1.22 0.70 5.54
2,294 $234.76 23.4 Zn EQ

Geological Legend

Surface / End

- CASE casing
- OVB overburden
- EOH end of hole
- LOST

Intrusive Rocks

- BIN basalt intrusion
- BDK basalt dyke
- ADK andesite dyke
- FDK felsic dyke
- RDK rhyolite dyke
- SRD rhyolite dyke, Sloko Fm
- qfp quartz feldspar porphyry

Mafic Extrusive Rocks

- BAU basalt undivided
- BFL basalt flow
- BFLX basalt flow breccia
- BTF basalt tuff, undivided
- BAT basalt ash tuff
- BLAT basalt lapilli and ash tuff
- BLT basalt lapilli tuff
- BXLT basalt crystal lapilli tuff
- BFX basalt fragmental
- BDF basalt debris flow
- BAHY basalt hyaloclastite

Intermediate Extrusive Rocks

- AND andesite undivided
- ANDev evolved andesite
- AFL andesite flow
- AAT andesite ash tuff
- ALAT andesite lapilli and ash tuff
- AFX andesite fragmental
- DAU dacite, undivided
- DFL dacite flow
- DFLX dacite flow breccia
- DTF dacite tuff, undivided
- DAT dacite ash tuff
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RFL rhyolite flow
- RFLX rhyolite flow breccias
- RTF rhyolite tuff, undivided
- RAT rhyolite ash tuff
- RLAT rhyolite lapilli and ash tuff
- RLT rhyolite lapilli tuff
- RXLT rhyolite crystal lapilli tuff
- RFX rhyolite fragmental, coars
- RDF rhyolite debris flow
- RLS Rhyolite Lapilli Stone
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- CHT Chert
- LS limestone
- VSD Volcanic Sedimentary
- ARG argillite / tuffaceous
- SH shale (fissile)
- SLT siltstone / tuffaceous

Mineralized / Alteration

- MSX massive sulphides
- SMSX semi-massive sulphides
- SSX stringer zone sulphides
- SCBX sulphide clast breccia
- SSTK sulphide stockwork
- CUF copper facies
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies
- CHF chert facies
- GYF gypsum facies
- QSP quartz sericite pyrite
- CSP chlorite sericite pyrite
- CSS chlorite sericite alteration
- SBX hydrothermal breccia (sx)

Faults / Structures

- FAUL fault
- FLZN fault zone
- BX breccia, undivided
- FBX fault breccia
- FBXcr milled fault breccia (crush)
- QZVN quartz vein
- QZBX quartz vein breccia
- QSTK quartz stockwork, silica
- QCBX quartz carbonate vein

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) **Lithology** Depth(m) **HH Trace** Cu(%) Pb (%) Zn(%)

2014 Stope Information

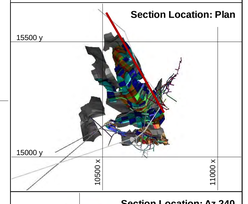
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name

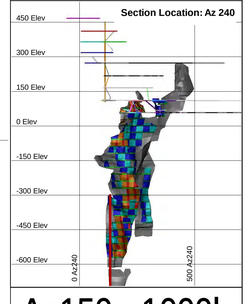
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 1000b

CHIEFTAIN METALS INC

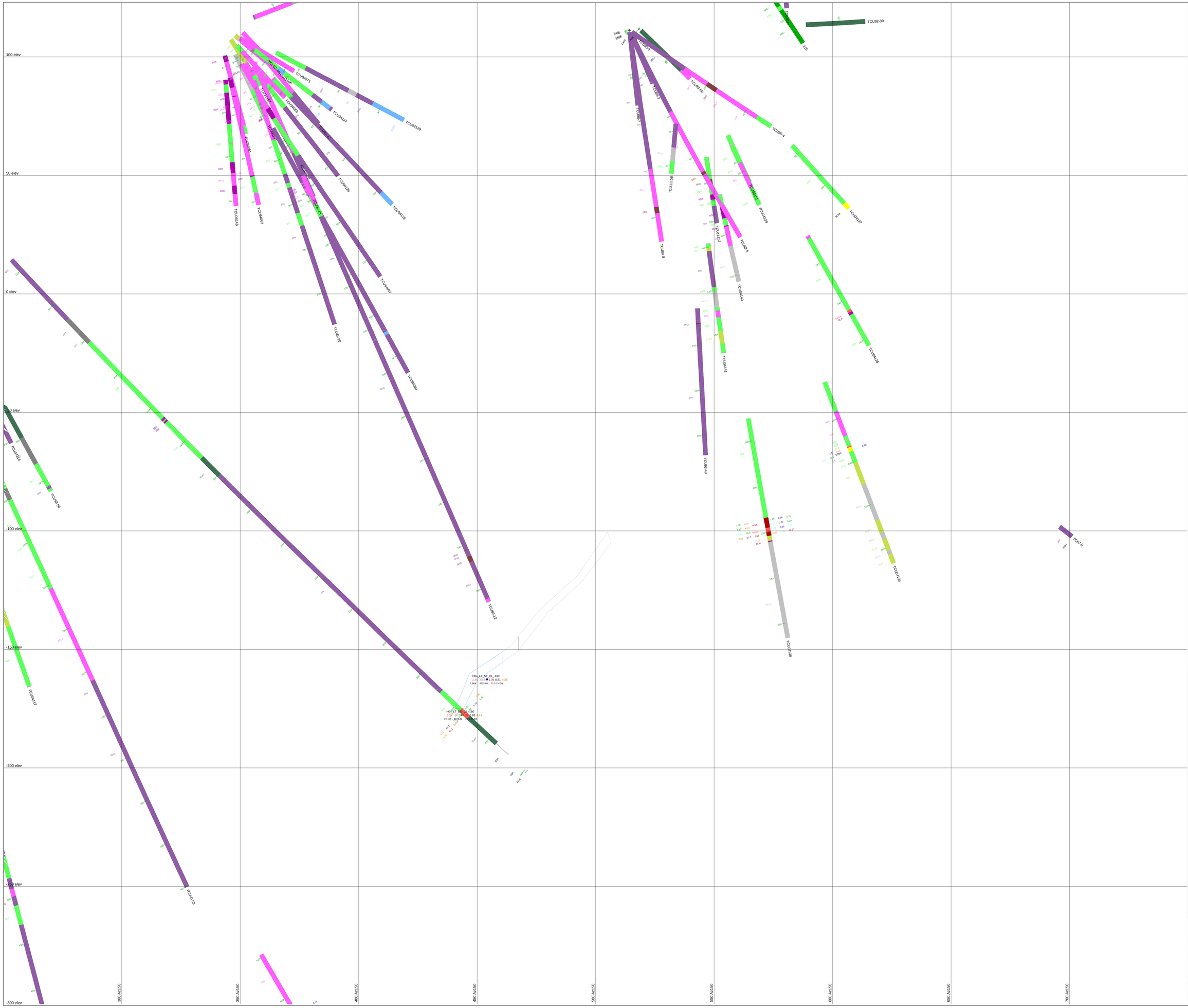
Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 1000; ±10m	21 Nov 2014



Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

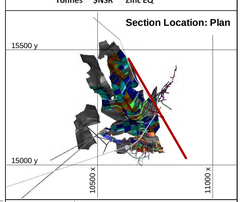
Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

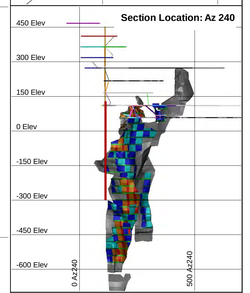
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)
Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 1020a

CHIEFTAIN METALS INC

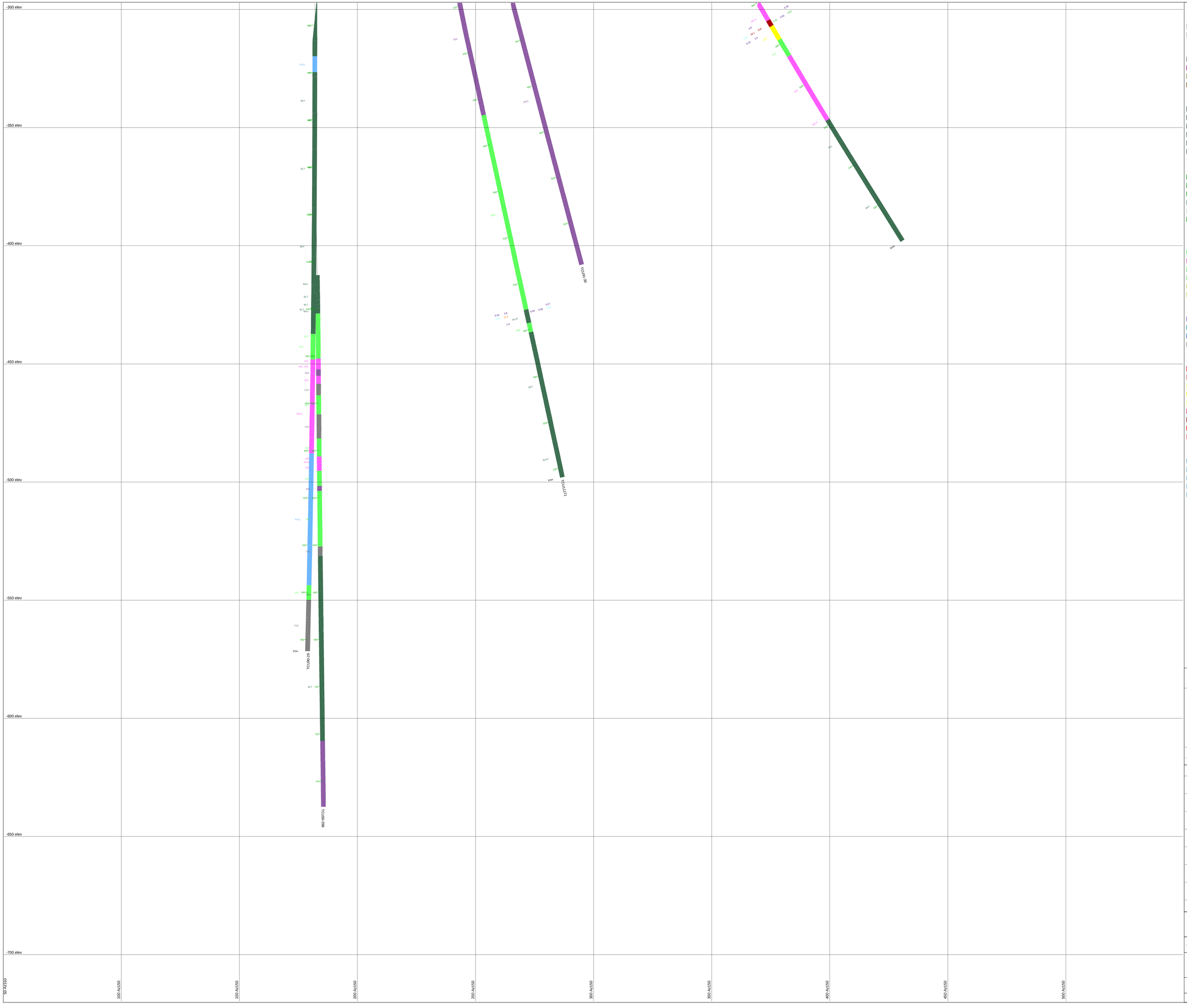
Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 1020; ±10m	21 Nov 2014



Geological Legend

Surface / End

- CASE casing
- OVB overburden
- EOH end of hole
- LOST

Intrusive Rocks

- BIN basalt intrusion
- BDK basalt dyke
- ADK andesite dyke
- FDK felsic dyke
- RDK rhyolite dyke
- SRD rhyolite dyke, Sloko Fm
- qfp quartz feldspar porphyry

Mafic Extrusive Rocks

- BAU basalt undivided
- BFL basalt flow
- BFLX basalt flow breccia
- BTF basalt tuff, undivided
- BAT basalt ash tuff
- BLAT basalt lapilli and ash tuff
- BLT basalt lapilli tuff
- BXLT basalt crystal lapilli tuff
- BFX basalt fragmental
- BDF basalt debris flow
- BAHY basalt hyaloclastite

Intermediate Extrusive Rocks

- AND andesite undivided
- ANDev evolved andesite
- AFL andesite flow
- AAT andesite ash tuff
- ALAT andesite lapilli and ash tuff
- AFX andesite fragmental
- DAU dacite, undivided
- DFL dacite flow
- DFLX dacite flow breccia
- DTF dacite tuff, undivided
- DAT dacite ash tuff
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RFL rhyolite flow
- RFLX rhyolite flow breccias
- RTF rhyolite tuff, undivided
- RAT rhyolite ash tuff
- RLAT rhyolite lapilli and ash tuff
- RLT rhyolite lapilli tuff
- RXLT rhyolite crystal lapilli tuff
- RFX rhyolite fragmental, coars
- RDF rhyolite debris flow
- RLS Rhyolite Lapilli Stone
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- CHT Chert
- LS limestone
- VSD Volcanic Sedimentary
- ARG argillite / tuffaceous
- SH shale (fissile)
- SLT siltstone / tuffaceous

Mineralized / Alteration

- MSX massive sulphides
- SMSX semi-massive sulphides
- SSX stringer zone sulphides
- SCBX sulphide clast breccia
- SSTK sulphide stockwork
- CUF copper facies
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies
- CHF chert facies
- GYF gypsum facies
- QSP quartz sericite pyrite
- CSP chlorite sericite pyrite
- CSS chlorite sericite alteration
- SBX hydrothermal breccia (sx)

Faults / Structures

- FAUL fault
- FLZN fault zone
- BX breccia, undivided
- FBX fault breccia
- FBXcr milled fault breccia (crush)
- QZVN quartz vein
- QZBX quartz vein breccia
- QSTK quartz stockwork, silica
- QCBX quartz carbonate vein

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

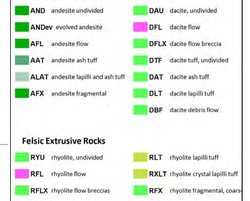
Au(g/t) Ag(g/t) Lithology Depth(m) DH_TYPE Cu(%) Pb (%) Zn(%)

2014 Stope Information

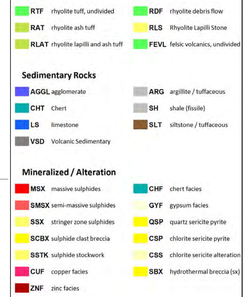
Development
Cut and Fill
Primary
Longitudinal
Secondary

Stope_Name
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)
Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 1020b

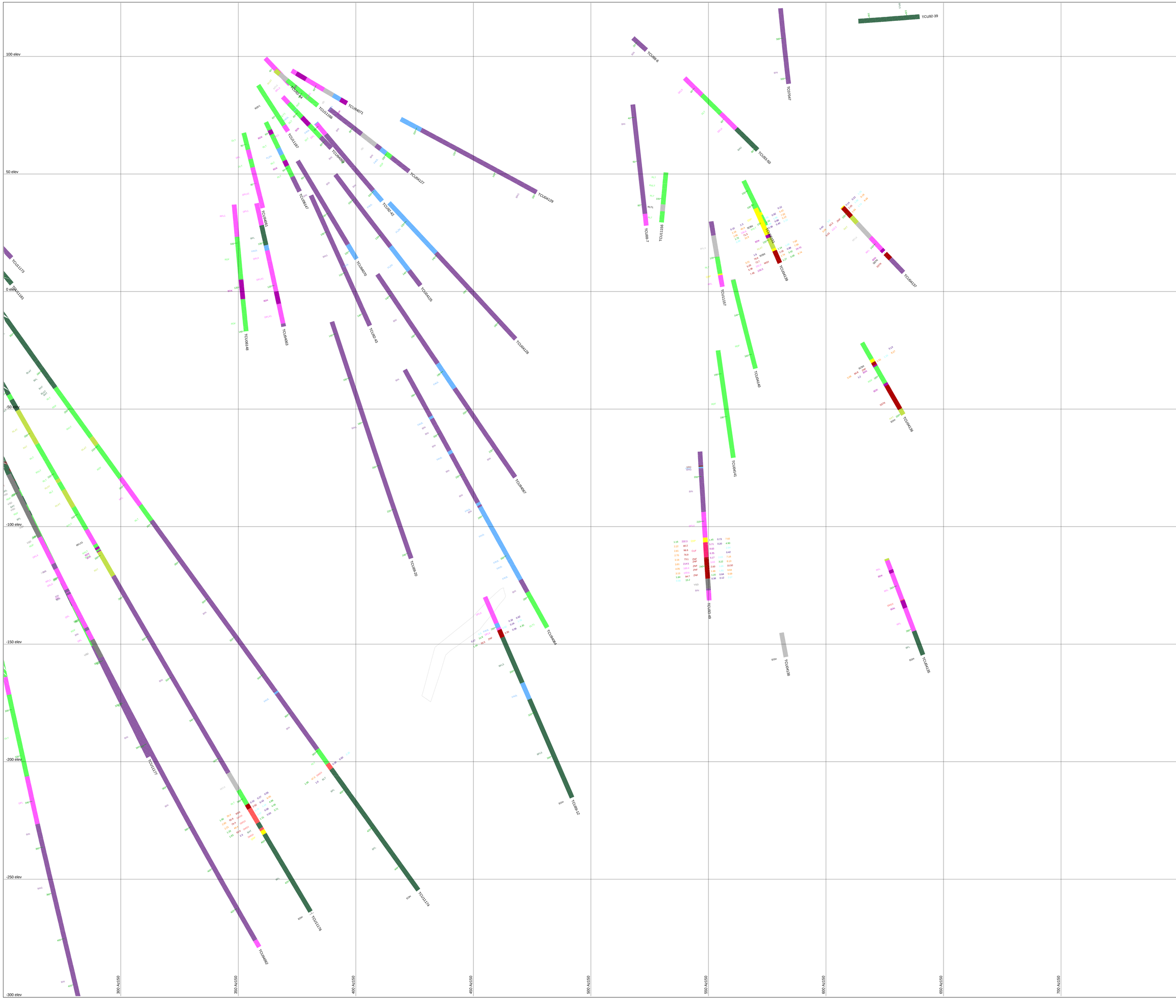
CHIEFTAIN METALS INC

Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

Scale 1:500 (-5 0 5 10 15 20 25 metres)

Drawn by: BA	Vert Az150 Sect 1020; ±10m	21 Nov 2014



Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) Cu(%) Pb (%) Zn(%) INTERVAL

2014 Stope Information

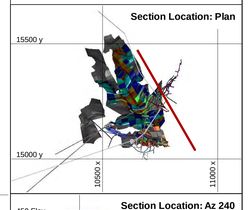
Development
Cut and Fill
Primary
Longitudinal
Secondary

Stope_Name

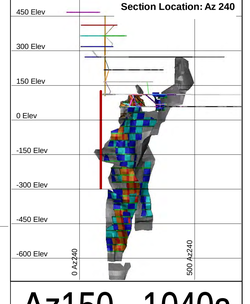
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 1040a

CHIEFTAIN METALS INC

Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 1040; ±10m	21 Nov 2014

-300 elev
-350 elev
-400 elev
-450 elev
-500 elev
-550 elev
-600 elev
-650 elev
-700 elev

50 Az150
100 Az150
150 Az150
200 Az150
250 Az150
300 Az150
350 Az150
400 Az150
450 Az150
500 Az150

TCU90-26

TCU90-25

TCU90-298

Geological Legend

Surface / End

- CASE casing
- EOH end of hole
- OVB overburden
- LOST

Intrusive Rocks

- BIN basalt intrusion
- RDK rhyolite dyke
- BDK basalt dyke
- SRD rhyolite dyke, Sloko Fm
- ADK andesite dyke
- qfp quartz feldspar porphyry
- FDK felsic dyke

Mafic Extrusive Rocks

- BAU basalt undivided
- BLT basalt lapilli tuff
- BFL basalt flow
- BXLT basalt crystal lapilli tuff
- BFLX basalt flow breccia
- BFX basalt fragmental
- BTF basalt tuff, undivided
- BDF basalt debris flow
- BAT basalt ash tuff
- BAHY basalt hyaloclastite
- BLAT basalt lapilli and ash tuff

Intermediate Extrusive Rocks

- AND andesite undivided
- DAU dacite, undivided
- ANDev evolved andesite
- DFL dacite flow
- AFL andesite flow
- DFLX dacite flow breccia
- AAT andesite ash tuff
- DTF dacite tuff, undivided
- ALAT andesite lapilli and ash tuff
- DAT dacite ash tuff
- AFX andesite fragmental
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RLT rhyolite lapilli tuff
- RFL rhyolite flow
- RXLT rhyolite crystal lapilli tuff
- RFLX rhyolite flow breccias
- RFX rhyolite fragmental, coars
- RTF rhyolite tuff, undivided
- RDF rhyolite debris flow
- RAT rhyolite ash tuff
- RLS Rhyolite Lapilli Stone
- RLAT rhyolite lapilli and ash tuff
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- ARG argillite / tuffaceous
- CHT Chert
- SH shale (fissile)
- LS limestone
- SLT siltstone / tuffaceous
- VSD Volcanic Sedimentary

Mineralized / Alteration

- MSX massive sulphides
- CHF chert facies
- SMSX semi-massive sulphides
- GYF gypsum facies
- SSX stringer zone sulphides
- QSP quartz sericite pyrite
- SCBX sulphide clast breccia
- CSP chlorite sericite pyrite
- SSTK sulphide stockwork
- CSS chlorite sericite alteration
- CUF copper facies
- SBX hydrothermal breccia (sx)
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies

Faults / Structures

- FAUL fault
- QZVN quartz vein
- FLZN fault zone
- QZBX quartz vein breccia
- BX breccia, undivided
- QSTK quartz stockwork, silica
- FBX fault breccia
- QCBX quartz carbonate vein
- FBXcr milled fault breccia (crush)

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

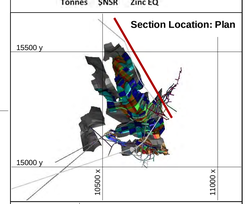
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name

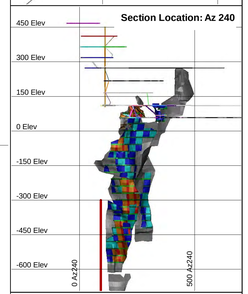
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 1040b

CHIEFTAIN METALS INC

Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 1040; ±10m	21 Nov 2014



Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

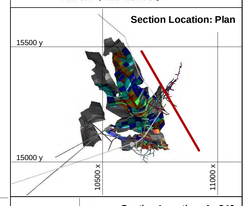
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

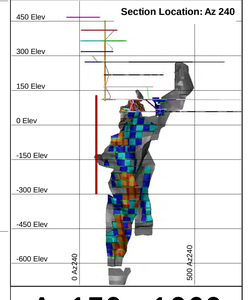
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 240



Az150 - 1060

CHIEFTAIN METALS INC

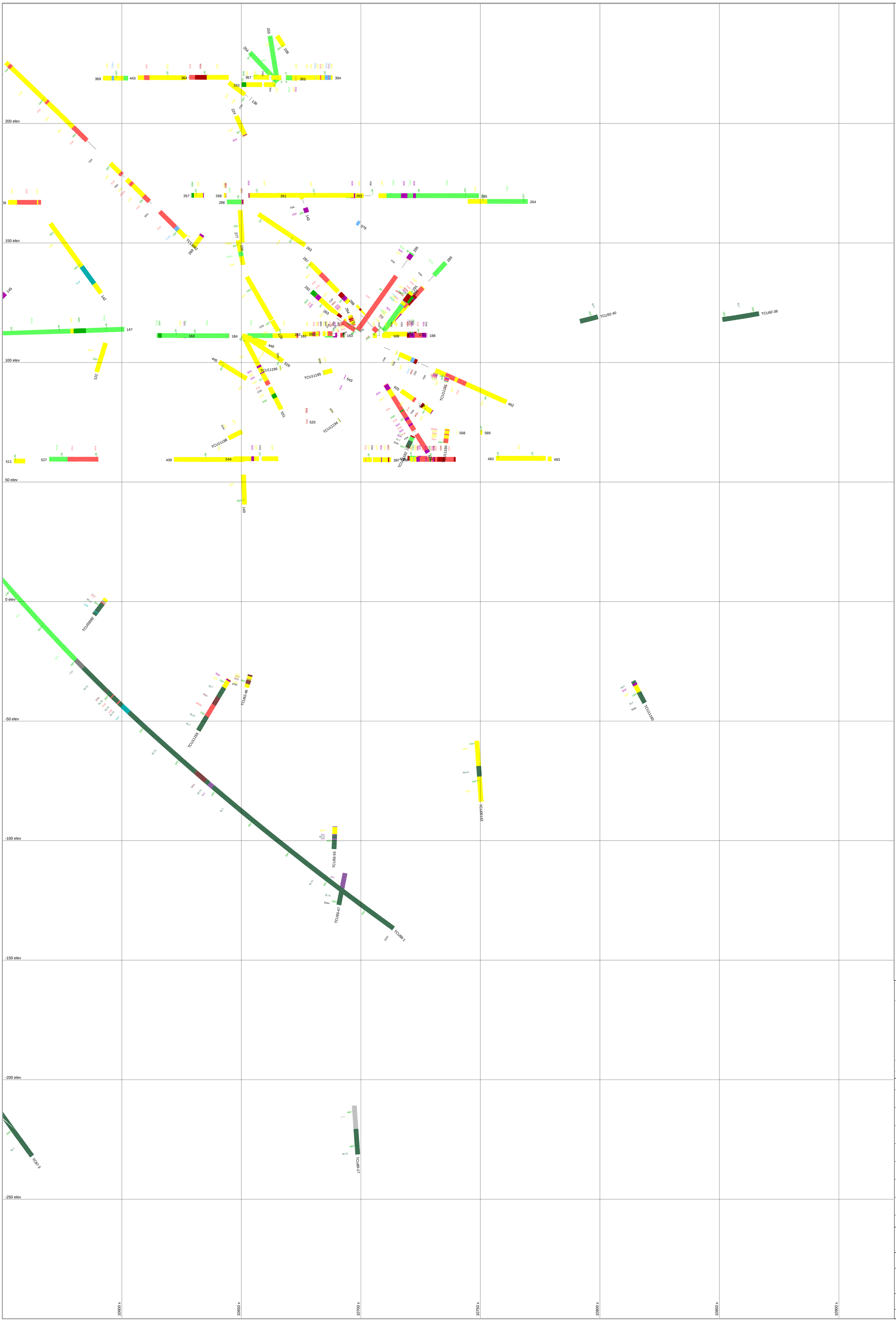
Tulsequah Chief H Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az150 Sect 1060; ±10m	21 Nov 2014



Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) **Lithology** Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

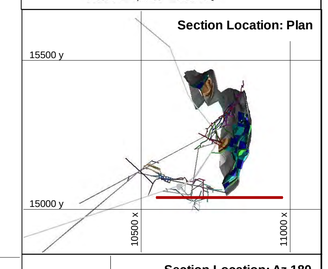
Development	
Cut and Fill	Primary
Longitudinal	Secondary

Stope_Name

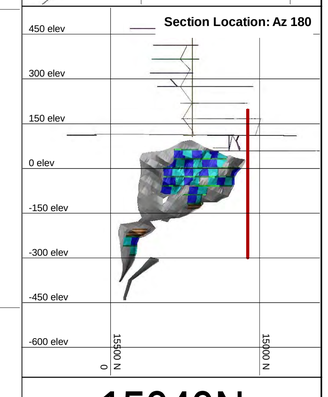
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15040N

CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25

Scale 1:500 metres

Drawn by: BA	Vert Az090 Sect 15040N; ±10m	21 Nov 2014

200 elev
150 elev
100 elev
50 elev
0 elev
-50 elev
-100 elev
-150 elev
-200 elev
-250 elev
10040 x
10090 x
10100 x
10150 x
10200 x
10250 x
10300 x
10350 x
10400 x

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
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BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
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VSD	Volcanic Sedimentary		

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SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

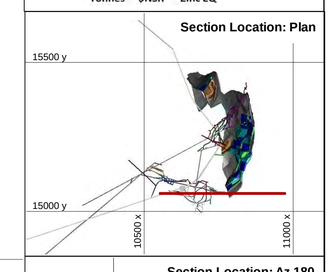
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

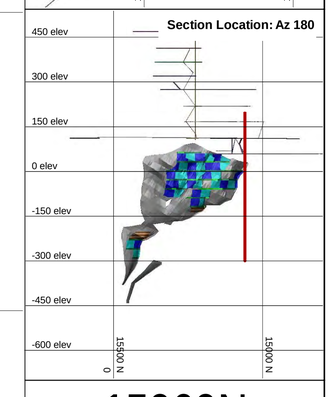
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15060N

CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az090 Sect 15060N; ±10m	21 Nov 2014

200 elev
150 elev
100 elev
50 elev
0 elev
-50 elev
-100 elev
-150 elev
-200 elev
-250 elev
10600 x
10650 x
10700 x
10750 x
10800 x
10850 x
10900 x

TCU11197
TCU11200
TCU11196
TCU11201
TCU11198
TCU11199
TCU11155
TCU92-46
TCU92-40
TCU92-38
TCU03082
TCU88-2
TCU88-9
TCU06144
TCU06145
TCU93-47
TCU93-55
TCU06142
TCU88-3
TCU89-17
TCU92-37
TCU11165
TCU11158
TCU11160
TCU06143
TCU89-5
TCU87-2
TCU87-5
TCU89-4
TCU66-4

G01_LT_ST_07_-030
0.63 95.5 - 0.72 0.56 3.51
11,194t $199.78 19.9 Zn EQ

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

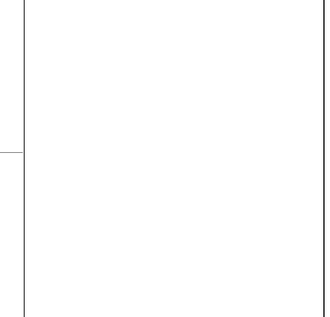
Development
Cut and Fill
Primary
Longitudinal
Secondary

Stope_Name
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)
Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15080N

CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres
Scale 1:500

Drawn by: BA	Vert Az090 Sect 15080N; ±10m	21 Nov 2014

200 elev
150 elev
100 elev
50 elev
0 elev
-50 elev
-100 elev
-150 elev
-200 elev
-250 elev
10600 x
10650 x
10700 x
10750 x
10800 x
10850 x
10900 x

Geological Legend

Surface / End

- CASE casing
- EOH end of hole
- OVB overburden
- LOST

Intrusive Rocks

- BIN basalt intrusion
- RDK rhyolite dyke
- BDK basalt dyke
- SRD rhyolite dyke, Sloko Fm
- ADK andesite dyke
- qfp quartz feldspar porphyry
- FDK felsic dyke

Mafic Extrusive Rocks

- BAU basalt undivided
- BLT basalt lapilli tuff
- BFL basalt flow
- BXLT basalt crystal lapilli tuff
- BFLX basalt flow breccia
- BFX basalt fragmental
- BTF basalt tuff, undivided
- BDF basalt debris flow
- BAT basalt ash tuff
- BAHY basalt hyaloclastite
- BLAT basalt lapilli and ash tuff

Intermediate Extrusive Rocks

- AND andesite undivided
- DAU dacite, undivided
- ANDev evolved andesite
- DFL dacite flow
- AFL andesite flow
- DFLX dacite flow breccia
- AAT andesite ash tuff
- DTF dacite tuff, undivided
- ALAT andesite lapilli and ash tuff
- DAT dacite ash tuff
- AFX andesite fragmental
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RLT rhyolite lapilli tuff
- RFL rhyolite flow
- RXLT rhyolite crystal lapilli tuff
- RFLX rhyolite flow breccias
- RFX rhyolite fragmental, coars
- RTF rhyolite tuff, undivided
- RDF rhyolite debris flow
- RAT rhyolite ash tuff
- RLS Rhyolite Lapilli Stone
- RLAT rhyolite lapilli and ash tuff
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- ARG argillite / tuffaceous
- CHT Chert
- SH shale (fissile)
- LS limestone
- SLT siltstone / tuffaceous
- VSD Volcanic Sedimentary

Mineralized / Alteration

- MSX massive sulphides
- CHF chert facies
- SMSX semi-massive sulphides
- GYF gypsum facies
- SSX stringer zone sulphides
- QSP quartz sericite pyrite
- SCBX sulphide clast breccia
- CSP chlorite sericite pyrite
- SSTK sulphide stockwork
- CSS chlorite sericite alteration
- CUF copper facies
- SBX hydrothermal breccia (sx)
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies

Faults / Structures

- FAUL fault
- QZVN quartz vein
- FLZN fault zone
- QZBX quartz vein breccia
- BX breccia, undivided
- QSTK quartz stockwork, silica
- FBX fault breccia
- QCBX quartz carbonate vein
- FBXcr milled fault breccia (crush)

suffix codes

- 1 feldspar
- qp quartz porphyry
- 2 quartz
- fp feldspar porphyry
- 3 amphibole
- qfp quartz feldspar porphyry
- 4 pyroxene
- 5 amygdaloidal

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

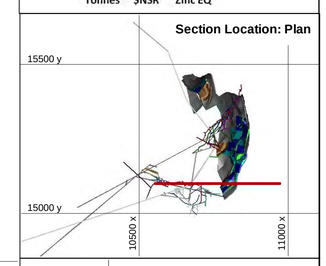
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name

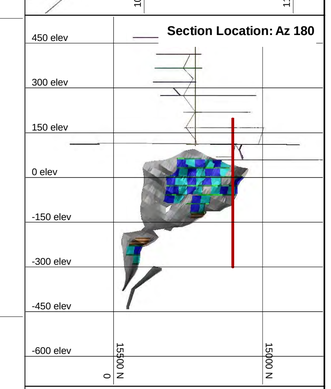
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15100N

CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az090 Sect 15100N; ±10m	21 Nov 2014

200 elev
150 elev
100 elev
50 elev
0 elev
-50 elev
-100 elev
-150 elev
-200 elev
-250 elev
10600 x
10650 x
10700 x
10750 x
10800 x
10850 x
10900 x
10950 x

Geological Legend

Surface / End

- CASE casing
- EOH end of hole
- OVB overburden
- LOST

Intrusive Rocks

- BIN basalt intrusion
- RDK rhyolite dyke
- BDK basalt dyke
- SRD rhyolite dyke, Sloko Fm
- ADK andesite dyke
- qfp quartz feldspar porphyry
- FDK felsic dyke

Mafic Extrusive Rocks

- BAU basalt undivided
- BLT basalt lapilli tuff
- BFL basalt flow
- BXLT basalt crystal lapilli tuff
- BFLX basalt flow breccia
- BFX basalt fragmental
- BTF basalt tuff, undivided
- BDF basalt debris flow
- BAT basalt ash tuff
- BAHY basalt hyaloclastite
- BLAT basalt lapilli and ash tuff

Intermediate Extrusive Rocks

- AND andesite undivided
- DAU dacite, undivided
- ANDev evolved andesite
- DFL dacite flow
- AFL andesite flow
- DFLX dacite flow breccia
- AAT andesite ash tuff
- DTF dacite tuff, undivided
- ALAT andesite lapilli and ash tuff
- DAT dacite ash tuff
- AFX andesite fragmental
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RLT rhyolite lapilli tuff
- RFL rhyolite flow
- RXLT rhyolite crystal lapilli tuff
- RFLX rhyolite flow breccias
- RFX rhyolite fragmental, coars
- RTF rhyolite tuff, undivided
- RDF rhyolite debris flow
- RAT rhyolite ash tuff
- RLS Rhyolite Lapilli Stone
- RLAT rhyolite lapilli and ash tuff
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- ARG argillite / tuffaceous
- CHT Chert
- SH shale (fissile)
- LS limestone
- SLT siltstone / tuffaceous
- VSD Volcanic Sedimentary

Mineralized / Alteration

- MSX massive sulphides
- CHF chert facies
- SMSX semi-massive sulphides
- GYF gypsum facies
- SSX stringer zone sulphides
- QSP quartz sericite pyrite
- SCBX sulphide clast breccia
- CSP chlorite sericite pyrite
- SSTK sulphide stockwork
- CSS chlorite sericite alteration
- CUF copper facies
- SBX hydrothermal breccia (sx)
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies

Faults / Structures

- FAUL fault
- QZVN quartz vein
- FLZN fault zone
- QZBX quartz vein breccia
- BX breccia, undivided
- QSTK quartz stockwork, silica
- FBX fault breccia
- QCBX quartz carbonate vein
- FBXcr milled fault breccia (crush)

suffix codes

- 1 feldspar
- qp quartz porphyry
- 2 quartz
- fp feldspar porphyry
- 3 amphibole
- qfp quartz feldspar porphyry
- 4 pyroxene
- 5 amygdaloidal

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

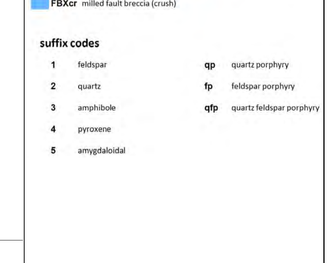
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name

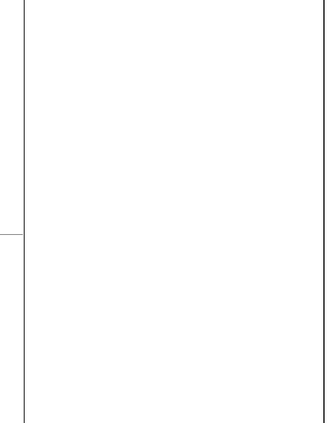
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15120N

CHIEFTAIN METALS INC

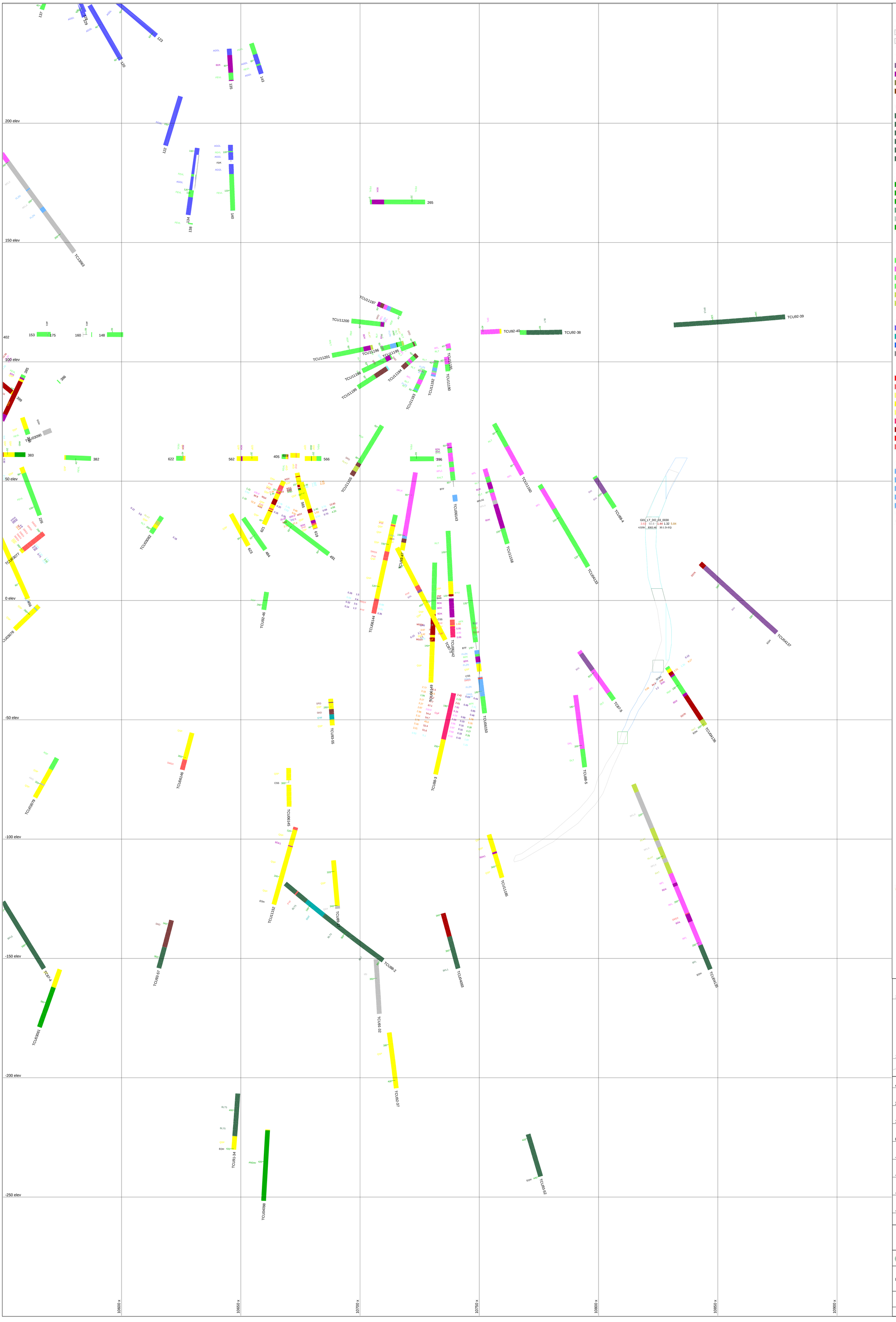
Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az090 Sect 15120N; ±10m	21 Nov 2014



Geological Legend

Surface / End

- CASE casing
- EOH end of hole
- OVB overburden
- LOST

Intrusive Rocks

- BIN basalt intrusion
- RDK rhyolite dyke
- BDK basalt dyke
- SRD rhyolite dyke, Sloko Fm
- ADK andesite dyke
- qfp quartz feldspar porphyry
- FDK felsic dyke

Mafic Extrusive Rocks

- BAU basalt undivided
- BLT basalt lapilli tuff
- BFL basalt flow
- BXLT basalt crystal lapilli tuff
- BFLX basalt flow breccia
- BFX basalt fragmental
- BTF basalt tuff, undivided
- BDF basalt debris flow
- BAT basalt ash tuff
- BAHY basalt hyaloclastite
- BLAT basalt lapilli and ash tuff

Intermediate Extrusive Rocks

- AND andesite undivided
- DAU dacite, undivided
- ANDev evolved andesite
- DFL dacite flow
- AFL andesite flow
- DFLX dacite flow breccia
- AAT andesite ash tuff
- DTF dacite tuff, undivided
- ALAT andesite lapilli and ash tuff
- DAT dacite ash tuff
- AFX andesite fragmental
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RLT rhyolite lapilli tuff
- RFL rhyolite flow
- RXLT rhyolite crystal lapilli tuff
- RFLX rhyolite flow breccias
- RFX rhyolite fragmental, coars
- RTF rhyolite tuff, undivided
- RDF rhyolite debris flow
- RAT rhyolite ash tuff
- RLS Rhyolite Lapilli Stone
- RLAT rhyolite lapilli and ash tuff
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- ARG argillite / tuffaceous
- CHT Chert
- SH shale (fissile)
- LS limestone
- SLT siltstone / tuffaceous
- VSD Volcanic Sedimentary

Mineralized / Alteration

- MSX massive sulphides
- CHF chert facies
- SMSX semi-massive sulphides
- GYF gypsum facies
- SSX stringer zone sulphides
- QSP quartz sericite pyrite
- SCBX sulphide clast breccia
- CSP chlorite sericite pyrite
- SSTK sulphide stockwork
- CSS chlorite sericite alteration
- CUF copper facies
- SBX hydrothermal breccia (sx)
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies

Faults / Structures

- FAUL fault
- QZVN quartz vein
- FLZN fault zone
- QZBX quartz vein breccia
- BX breccia, undivided
- QSTK quartz stockwork, silica
- FBX fault breccia
- QCBX quartz carbonate vein
- FBXcr milled fault breccia (crush)

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

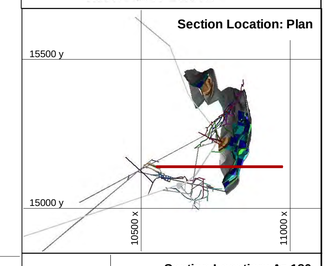
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name

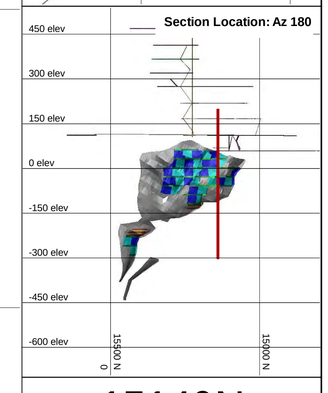
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15140N

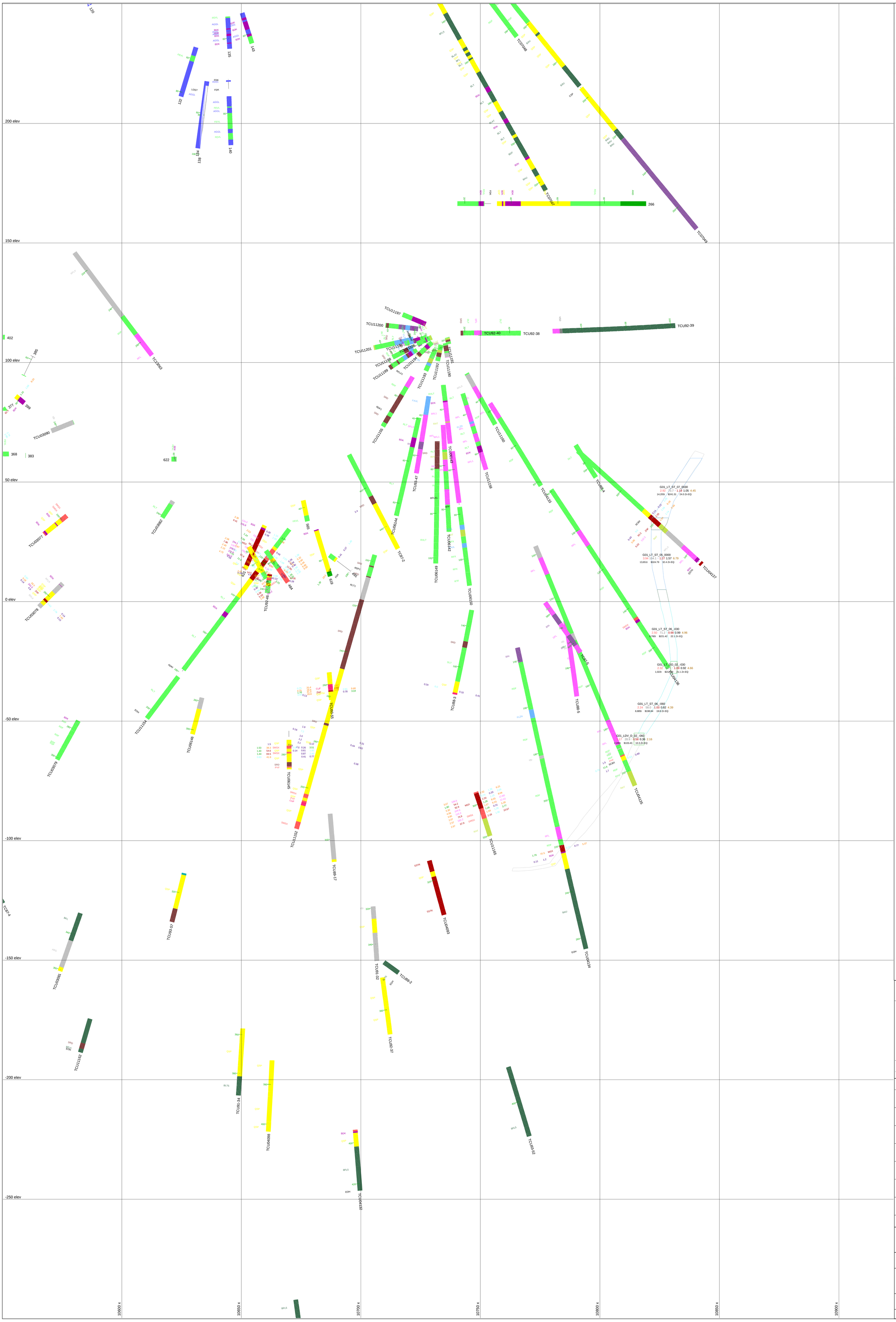
CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

Scale 1:500 (-5 0 5 10 15 20 25 metres)

Drawn by: BA	Vert Az090 Sect 15140N; ±10m	21 Nov 2014



Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

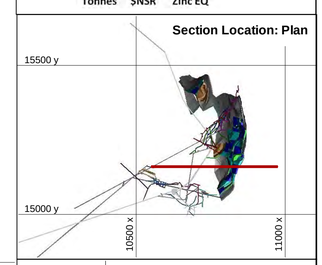
Development
Cut and Fill
Primary
Longitudinal
Secondary

Stope_Name

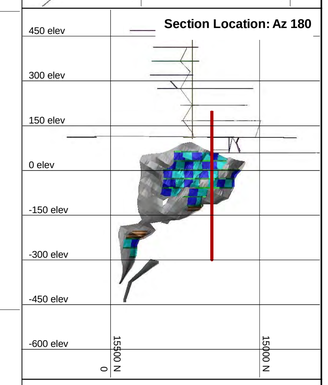
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15160N

CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az090 Sect 15160N; ±10m	21 Nov 2014

200 elev
150 elev
100 elev
50 elev
0 elev
-50 elev
-100 elev
-150 elev
-200 elev
-250 elev
10000 x
10050 x
10100 x
10750 x
10800 x
10850 x
10900 x

Geological Legend

Surface / End

- CASE casing
- EOH end of hole
- OVB overburden
- LOST

Intrusive Rocks

- BIN basalt intrusion
- RDK rhyolite dyke
- BDK basalt dyke
- SRD rhyolite dyke, Sloko Fm
- ADK andesite dyke
- qfp quartz feldspar porphyry
- FDK felsic dyke

Mafic Extrusive Rocks

- BAU basalt undivided
- BLT basalt lapilli tuff
- BFL basalt flow
- BXLT basalt crystal lapilli tuff
- BFLX basalt flow breccia
- BFX basalt fragmental
- BTF basalt tuff, undivided
- BDF basalt debris flow
- BAT basalt ash tuff
- BAHY basalt hyaloclastite
- BLAT basalt lapilli and ash tuff

Intermediate Extrusive Rocks

- AND andesite undivided
- DAU dacite, undivided
- ANDev evolved andesite
- DFL dacite flow
- AFL andesite flow
- DFLX dacite flow breccia
- AAT andesite ash tuff
- DTF dacite tuff, undivided
- ALAT andesite lapilli and ash tuff
- DAT dacite ash tuff
- AFX andesite fragmental
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RLT rhyolite lapilli tuff
- RFL rhyolite flow
- RXLT rhyolite crystal lapilli tuff
- RFLX rhyolite flow breccias
- RFX rhyolite fragmental, coars
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- RLS Rhyolite Lapilli Stone
- RLAT rhyolite lapilli and ash tuff
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- ARG argillite / tuffaceous
- CHT Chert
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- LS limestone
- SLT siltstone / tuffaceous
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Mineralized / Alteration

- MSX massive sulphides
- CHF chert facies
- SMSX semi-massive sulphides
- GYF gypsum facies
- SSX stringer zone sulphides
- QSP quartz sericite pyrite
- SCBX sulphide clast breccia
- CSP chlorite sericite pyrite
- SSTK sulphide stockwork
- CSS chlorite sericite alteration
- CUF copper facies
- SBX hydrothermal breccia (sx)
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies

Faults / Structures

- FAUL fault
- QZVN quartz vein
- FLZN fault zone
- QZBX quartz vein breccia
- BX breccia, undivided
- QSTK quartz stockwork, silica
- FBX fault breccia
- QCBX quartz carbonate vein
- FBXcr milled fault breccia (crush)

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) **Lithology** Depth(m) **DH Trace** Cu(%) Pb (%) Zn(%)

2014 Stope Information

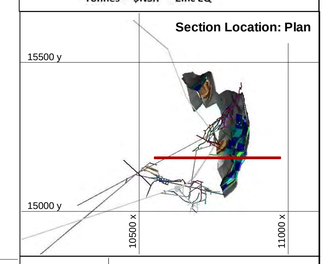
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name

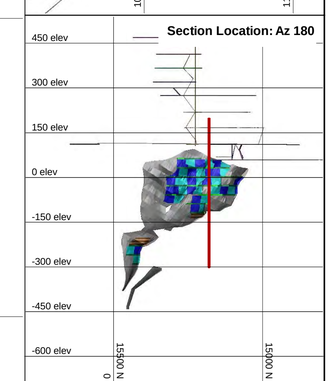
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15180N

CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az090 Sect 15180N; ±10m	21 Nov 2014

200 elev
150 elev
100 elev
50 elev
0 elev
-50 elev
-100 elev
-150 elev
-200 elev
-250 elev
10600 x
10650 x
10700 x
10750 x
10800 x
10850 x
10900 x

Geological Legend

Surface / End

- CASE casing
- EOH end of hole
- OVB overburden
- LOST

Intrusive Rocks

- BIN basalt intrusion
- RDK rhyolite dyke
- BDK basalt dyke
- SRD rhyolite dyke, Sloko Fm
- ADK andesite dyke
- qfp quartz feldspar porphyry
- FDK felsic dyke

Mafic Extrusive Rocks

- BAU basalt undivided
- BLT basalt lapilli tuff
- BFL basalt flow
- BXLT basalt crystal lapilli tuff
- BFLX basalt flow breccia
- BFX basalt fragmental
- BTF basalt tuff, undivided
- BDF basalt debris flow
- BAT basalt ash tuff
- BAHY basalt hyaloclastite
- BLAT basalt lapilli and ash tuff

Intermediate Extrusive Rocks

- AND andesite undivided
- DAU dacite, undivided
- ANDev evolved andesite
- DFL dacite flow
- AFL andesite flow
- DFLX dacite flow breccia
- AAT andesite ash tuff
- DTF dacite tuff, undivided
- ALAT andesite lapilli and ash tuff
- DAT dacite ash tuff
- AFX andesite fragmental
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RLT rhyolite lapilli tuff
- RFL rhyolite flow
- RXLT rhyolite crystal lapilli tuff
- RFLX rhyolite flow breccias
- RFX rhyolite fragmental, coars
- RTF rhyolite tuff, undivided
- RDF rhyolite debris flow
- RAT rhyolite ash tuff
- RLS Rhyolite Lapilli Stone
- RLAT rhyolite lapilli and ash tuff
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- ARG argillite / tuffaceous
- CHT Chert
- SH shale (fissile)
- LS limestone
- SLT siltstone / tuffaceous
- VSD Volcanic Sedimentary

Mineralized / Alteration

- MSX massive sulphides
- CHF chert facies
- SMSX semi-massive sulphides
- GYF gypsum facies
- SSX stringer zone sulphides
- QSP quartz sericite pyrite
- SCBX sulphide clast breccia
- CSP chlorite sericite pyrite
- SSTK sulphide stockwork
- CSS chlorite sericite alteration
- CUF copper facies
- SBX hydrothermal breccia (sx)
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies

Faults / Structures

- FAUL fault
- QZVN quartz vein
- FLZN fault zone
- QZBX quartz vein breccia
- BX breccia, undivided
- QSTK quartz stockwork, silica
- FBX fault breccia
- QCBX quartz carbonate vein
- FBXcr milled fault breccia (crush)

suffix codes

- 1 feldspar
- qp quartz porphyry
- 2 quartz
- fp feldspar porphyry
- 3 amphibole
- qfp quartz feldspar porphyry
- 4 pyroxene
- 5 amygdaloidal

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

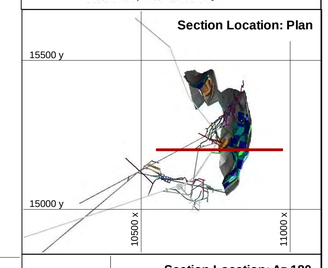
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name

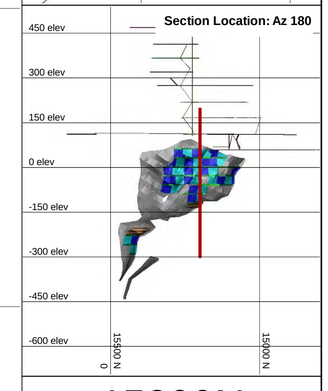
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15200N

CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az090 Sect 15200N; ±10m	21 Nov 2014

200 elev
150 elev
100 elev
50 elev
0 elev
-50 elev
-100 elev
-150 elev
-200 elev
-250 elev
10600 x
10650 x
10700 x
10750 x
10800 x
10850 x
10900 x

Geological Legend

Surface / End
- CASE casing
- EOH end of hole
- OVB overburden
- LOST

Intrusive Rocks
- BIN basalt intrusion
- RDK rhyolite dyke
- BDK basalt dyke
- SRD rhyolite dyke, Sloko Fm
- ADK andesite dyke
- qfp quartz feldspar porphyry
- FDK felsic dyke

Mafic Extrusive Rocks
- BAU basalt undivided
- BLT basalt lapilli tuff
- BFL basalt flow
- BXLT basalt crystal lapilli tuff
- BFLX basalt flow breccia
- BFX basalt fragmental
- BTF basalt tuff, undivided
- BDF basalt debris flow
- BAT basalt ash tuff
- BAHY basalt hyaloclastite
- BLAT basalt lapilli and ash tuff

Intermediate Extrusive Rocks
- AND andesite undivided
- DAU dacite, undivided
- ANDev evolved andesite
- DFL dacite flow
- AFL andesite flow
- DFLX dacite flow breccia
- AAT andesite ash tuff
- DTF dacite tuff, undivided
- ALAT andesite lapilli and ash tuff
- DAT dacite ash tuff
- AFX andesite fragmental
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks
- RYU rhyolite, undivided
- RLT rhyolite lapilli tuff
- RFL rhyolite flow
- RXLT rhyolite crystal lapilli tuff
- RFLX rhyolite flow breccias
- RFX rhyolite fragmental, coars
- RTF rhyolite tuff, undivided
- RDF rhyolite debris flow
- RAT rhyolite ash tuff
- RLS Rhyolite Lapilli Stone
- RLAT rhyolite lapilli and ash tuff
- FEVL felsic volcanics, undivided

Sedimentary Rocks
- AGGL agglomerate
- ARG argillite / tuffaceous
- CHT Chert
- SH shale (fissile)
- LS limestone
- SLT siltstone / tuffaceous
- VSD Volcanic Sedimentary

Mineralized / Alteration
- MSX massive sulphides
- CHF chert facies
- SMSX semi-massive sulphides
- GYF gypsum facies
- SSX stringer zone sulphides
- QSP quartz sericite pyrite
- SCBX sulphide clast breccia
- CSP chlorite sericite pyrite
- SSTK sulphide stockwork
- CSS chlorite sericite alteration
- CUF copper facies
- SBX hydrothermal breccia (sx)
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies

Faults / Structures
- FAUL fault
- QZVN quartz vein
- FLZN fault zone
- QZBX quartz vein breccia
- BX breccia, undivided
- QSTK quartz stockwork, silica
- FBX fault breccia
- QCBX quartz carbonate vein
- FBXcr milled fault breccia (crush)

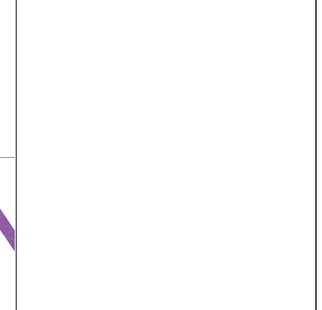
suffix codes
- 1 feldspar
- qp quartz porphyry
- 2 quartz
- fp feldspar porphyry
- 3 amphibole
- qfp quartz feldspar porphyry
- 4 pyroxene
- 5 amygdaloidal

Drillhole Trace Information
Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)
Tonnes $NSR Zinc EQ

Section Location: Plan


Section Location: Az 180


15220N

CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres
Scale 1:500

Drawn by: BA	Vert Az090 Sect 15220N; ±10m	21 Nov 2014

200 elev
150 elev
100 elev
50 elev
0 elev
-50 elev
-100 elev
-150 elev
-200 elev
-250 elev
10600 x
10650 x
10700 x
10750 x
10800 x
10850 x
10900 x

Geological Legend

Surface / End

- CASE casing
- EOH end of hole
- OVB overburden
- LOST

Intrusive Rocks

- BIN basalt intrusion
- RDK rhyolite dyke
- BDK basalt dyke
- SRD rhyolite dyke, Sloko Fm
- ADK andesite dyke
- qfp quartz feldspar porphyry
- FDK felsic dyke

Mafic Extrusive Rocks

- BAU basalt undivided
- BLT basalt lapilli tuff
- BFL basalt flow
- BXLT basalt crystal lapilli tuff
- BFLX basalt flow breccia
- BFX basalt fragmental
- BTF basalt tuff, undivided
- BDF basalt debris flow
- BAT basalt ash tuff
- BAHY basalt hyaloclastite
- BLAT basalt lapilli and ash tuff

Intermediate Extrusive Rocks

- AND andesite undivided
- DAU dacite, undivided
- ANDev evolved andesite
- DFL dacite flow
- AFL andesite flow
- DFLX dacite flow breccia
- AAT andesite ash tuff
- DTF dacite tuff, undivided
- ALAT andesite lapilli and ash tuff
- DAT dacite ash tuff
- AFX andesite fragmental
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RLT rhyolite lapilli tuff
- RFL rhyolite flow
- RXLT rhyolite crystal lapilli tuff
- RFLX rhyolite flow breccias
- RFX rhyolite fragmental, coars
- RTF rhyolite tuff, undivided
- RDF rhyolite debris flow
- RAT rhyolite ash tuff
- RLS Rhyolite Lapilli Stone
- RLAT rhyolite lapilli and ash tuff
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- ARG argillite / tuffaceous
- CHT Chert
- SH shale (fissile)
- LS limestone
- SLT siltstone / tuffaceous
- VSD Volcanic Sedimentary

Mineralized / Alteration

- MSX massive sulphides
- CHF chert facies
- SMSX semi-massive sulphides
- GYF gypsum facies
- SSX stringer zone sulphides
- QSP quartz sericite pyrite
- SCBX sulphide clast breccia
- CSP chlorite sericite pyrite
- SSTK sulphide stockwork
- CSS chlorite sericite alteration
- CUF copper facies
- SBX hydrothermal breccia (sx)
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies

Faults / Structures

- FAUL fault
- QZVN quartz vein
- FLZN fault zone
- QZBX quartz vein breccia
- BX breccia, undivided
- QSTK quartz stockwork, silica
- FBX fault breccia
- QCBX quartz carbonate vein
- FBXcr milled fault breccia (crush)

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

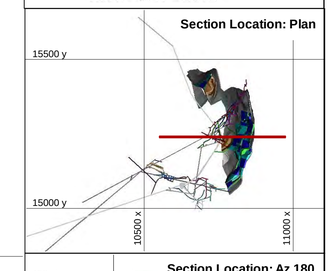
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name

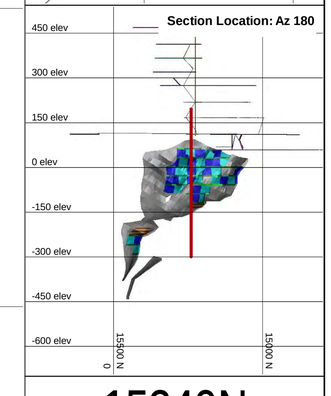
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15240N

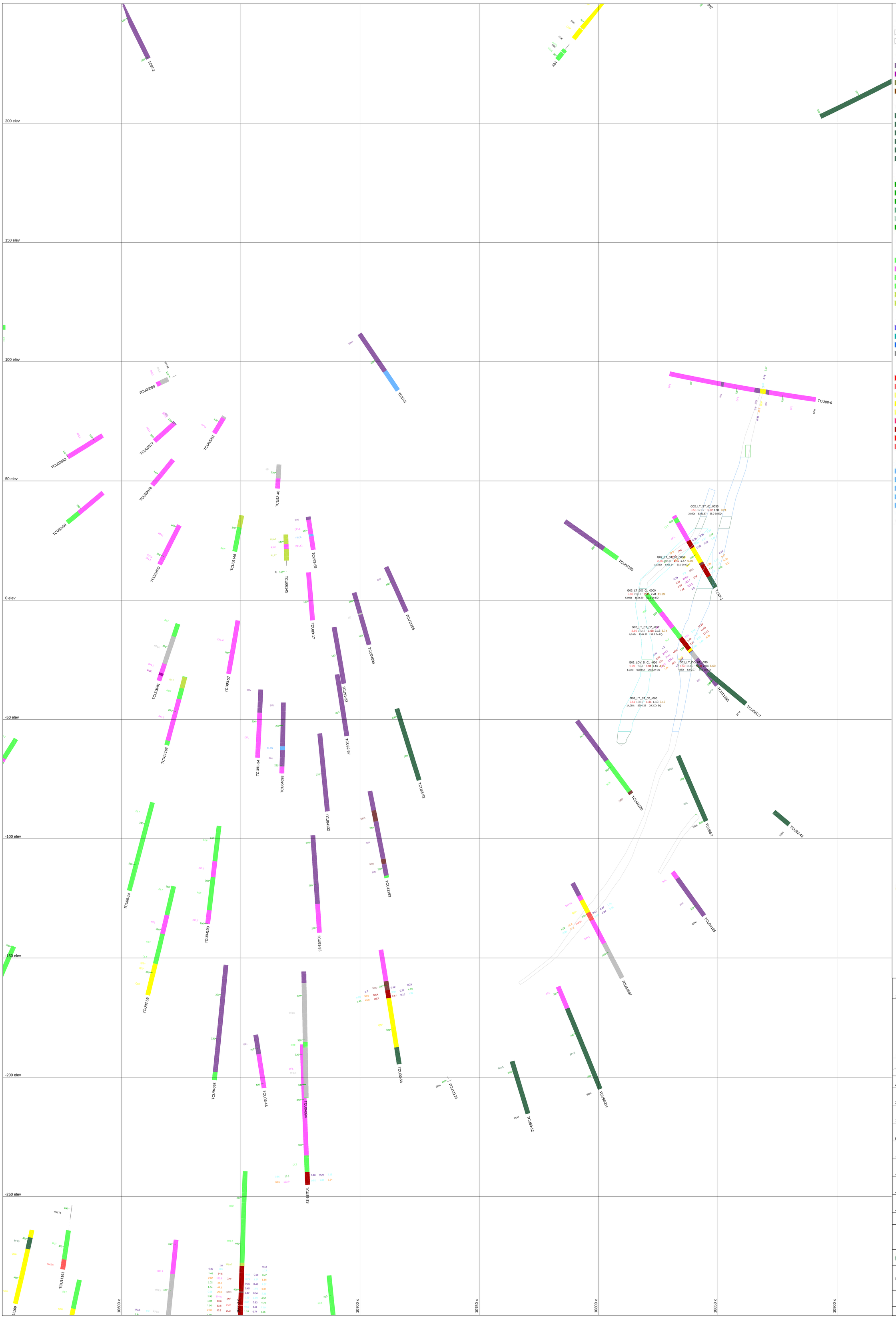
CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

Scale 1:500 (-5 0 5 10 15 20 25 metres)

Drawn by: BA	Vert Az090 Sect 15240N; ±10m	21 Nov 2014



Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) **Lithology** Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

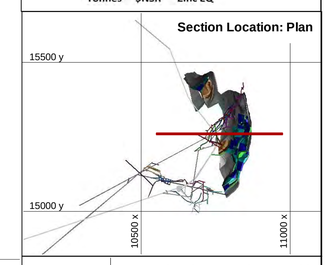
- Development
- Cut and Fill
- Longitudinal
- Primary
- Secondary

Stope_Name

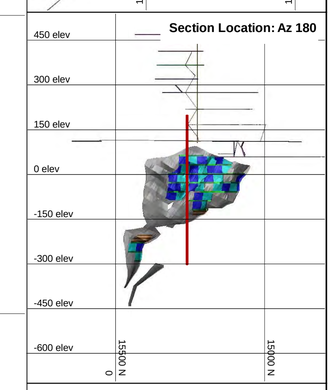
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15260N

CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25

Scale 1:500 metres

Drawn by: BA	Vert Az090 Sect 15260N; ±10m	21 Nov 2014

200 elev

150 elev

100 elev

50 elev

0 elev

-50 elev

-100 elev

-150 elev

-200 elev

-250 elev

10600 x

10650 x

10700 x

10750 x

10800 x

10850 x

10900 x

Geological Legend

Surface / End

- CASE casing
- EOH end of hole
- OVB overburden
- LOST

Intrusive Rocks

- BIN basalt intrusion
- RDK rhyolite dyke
- BDK basalt dyke
- SRD rhyolite dyke, Sloko Fm
- ADK andesite dyke
- qfp quartz feldspar porphyry
- FDK felsic dyke

Mafic Extrusive Rocks

- BAU basalt undivided
- BLT basalt lapilli tuff
- BFL basalt flow
- BXLT basalt crystal lapilli tuff
- BFLX basalt flow breccia
- BFX basalt fragmental
- BTF basalt tuff, undivided
- BDF basalt debris flow
- BAT basalt ash tuff
- BAHY basalt hyaloclastite
- BLAT basalt lapilli and ash tuff

Intermediate Extrusive Rocks

- AND andesite undivided
- DAU dacite, undivided
- ANDev evolved andesite
- DFL dacite flow
- AFL andesite flow
- DFLX dacite flow breccia
- AAT andesite ash tuff
- DTF dacite tuff, undivided
- ALAT andesite lapilli and ash tuff
- DAT dacite ash tuff
- AFX andesite fragmental
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RLT rhyolite lapilli tuff
- RFL rhyolite flow
- RXLT rhyolite crystal lapilli tuff
- RFLX rhyolite flow breccias
- RFX rhyolite fragmental, coars
- RTF rhyolite tuff, undivided
- RDF rhyolite debris flow
- RAT rhyolite ash tuff
- RLS Rhyolite Lapilli Stone
- RLAT rhyolite lapilli and ash tuff
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- ARG argillite / tuffaceous
- CHT Chert
- SH shale (fissile)
- LS limestone
- SLT siltstone / tuffaceous
- VSD Volcanic Sedimentary

Mineralized / Alteration

- MSX massive sulphides
- CHF chert facies
- SMSX semi-massive sulphides
- GYF gypsum facies
- SSX stringer zone sulphides
- QSP quartz sericite pyrite
- SCBX sulphide clast breccia
- CSP chlorite sericite pyrite
- SSTK sulphide stockwork
- CSS chlorite sericite alteration
- CUF copper facies
- SBX hydrothermal breccia (sx)
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies

Faults / Structures

- FAUL fault
- QZVN quartz vein
- FLZN fault zone
- QZBX quartz vein breccia
- BX breccia, undivided
- QSTK quartz stockwork, silica
- FBX fault breccia
- QCBX quartz carbonate vein
- FBXcr milled fault breccia (crush)

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

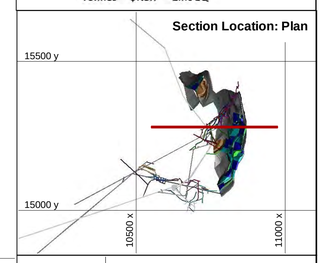
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name

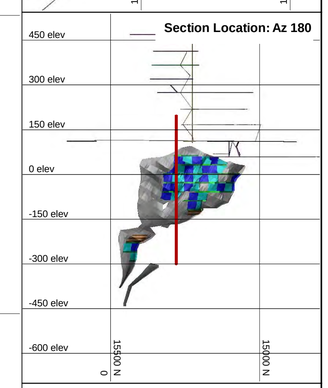
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15280N

CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az090 Sect 15280N; ±10m	21 Nov 2014

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

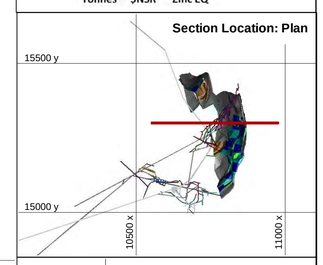
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

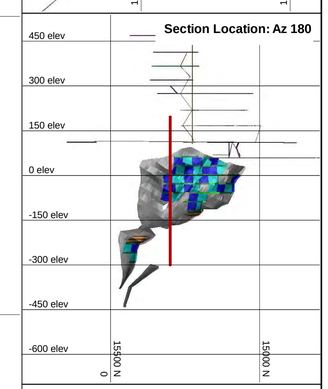
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15300N

CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

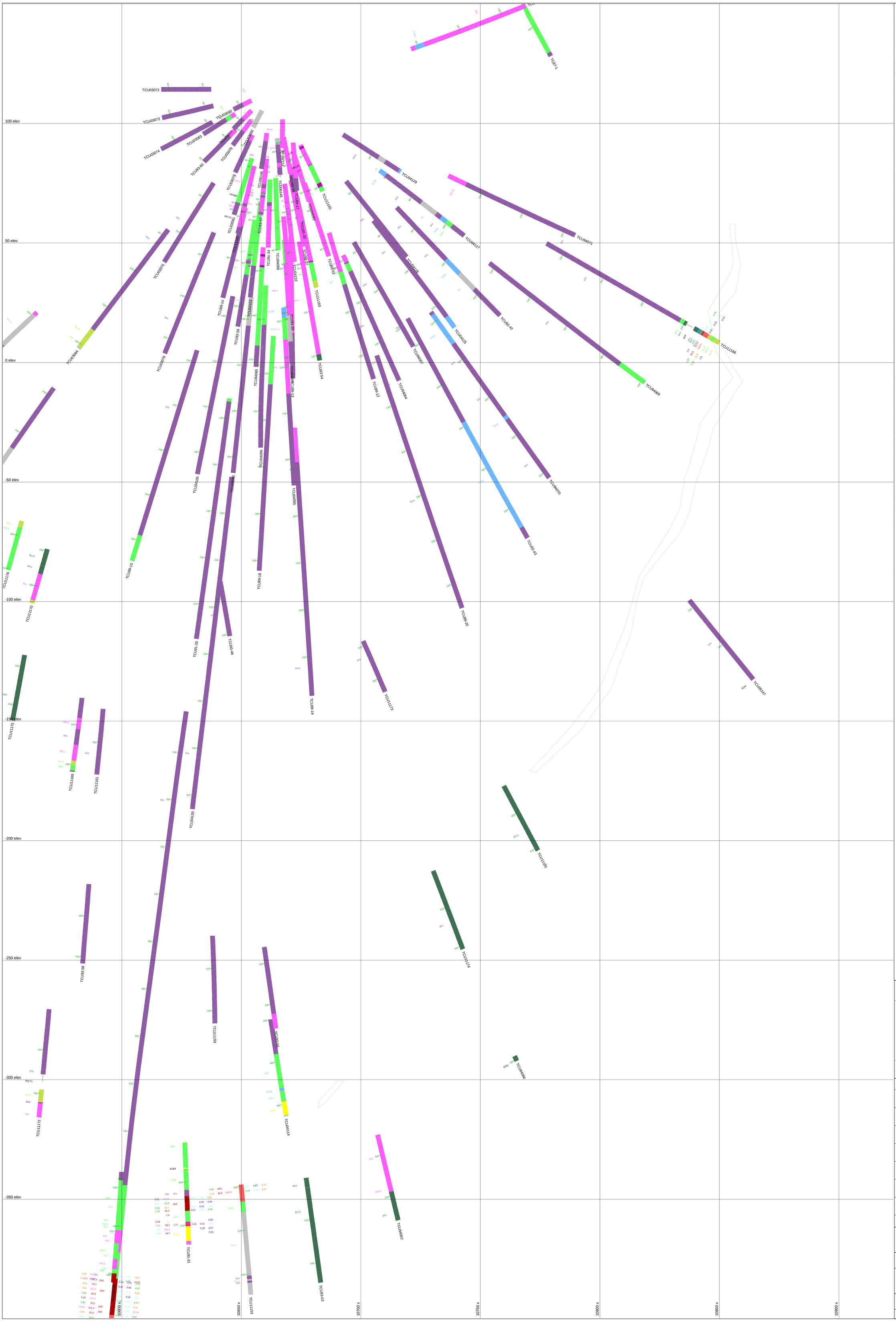
-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az090 Sect 15300N; ±10m	21 Nov 2014

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-100 elev
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-300 elev
-350 elev
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TCU13751
TCU13752



Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

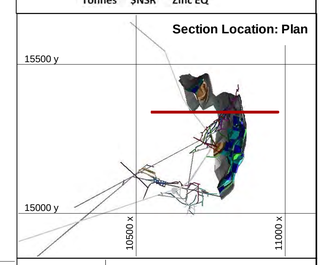
Development
Cut and Fill
Primary
Longitudinal
Secondary

Stope_Name

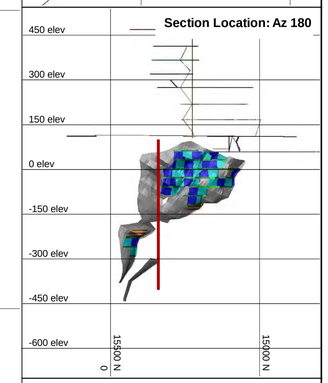
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15340N

CHIEFTAIN METALS INC

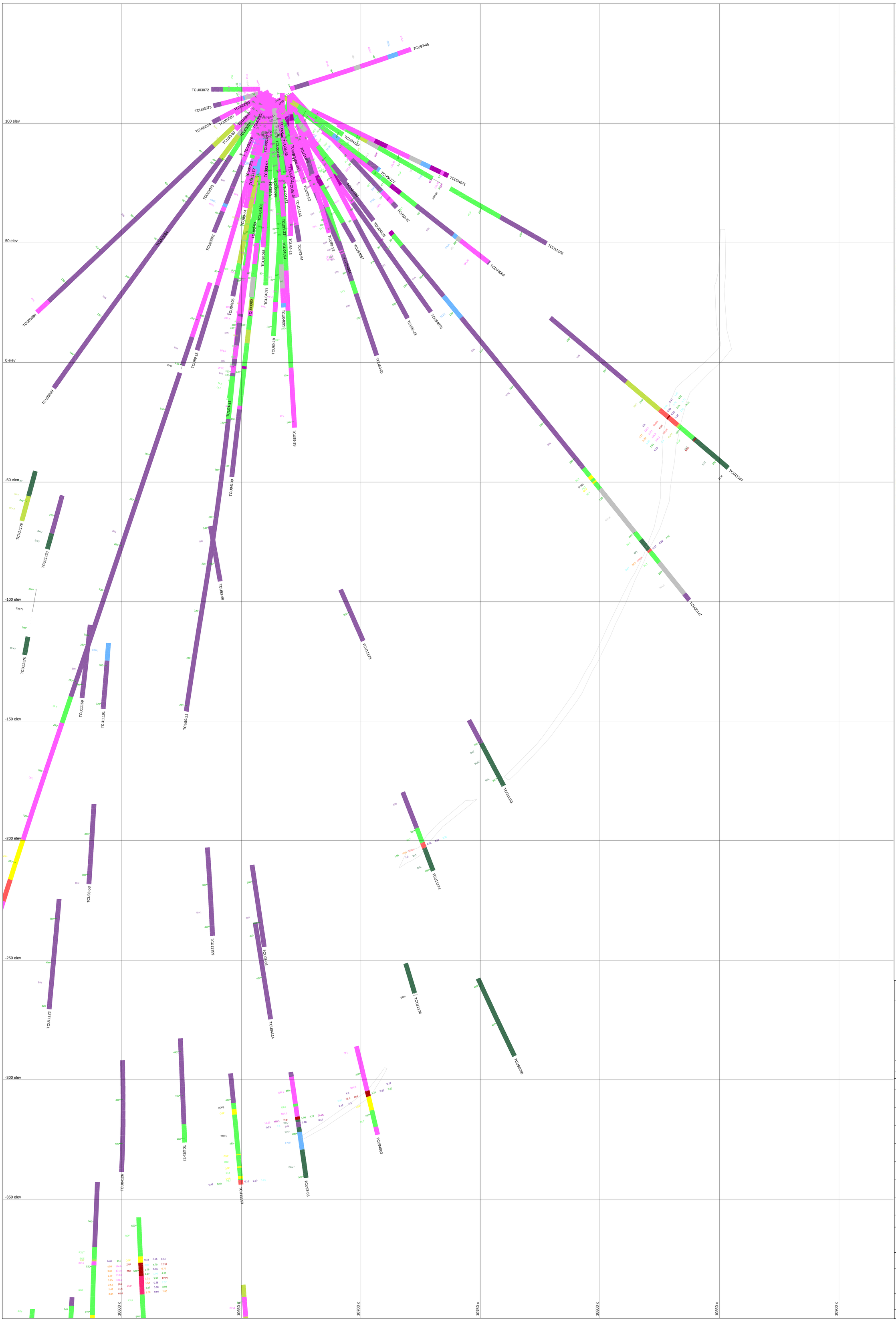
Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az090 Sect 15340N; ±10m	21 Nov 2014



Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

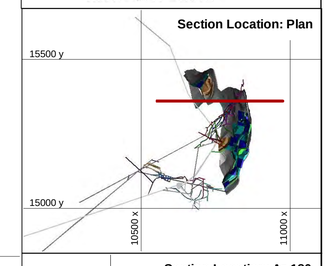
Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

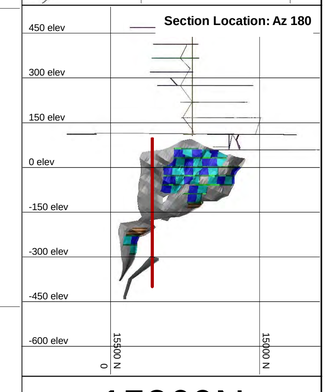
Development
Cut and Fill
Primary
Longitudinal
Secondary

Stope_Name
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)
Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15360N

CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25
Scale 1:500 metres

Drawn by: BA	Vert Az090 Sect 15360N; ±10m	21 Nov 2014

100 elev
50 elev
0 elev
-50 elev
-100 elev
-150 elev
-200 elev
-250 elev
-300 elev
-350 elev
10600 x
10700 x
10750 x
10800 x
10850 x
10900 x

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

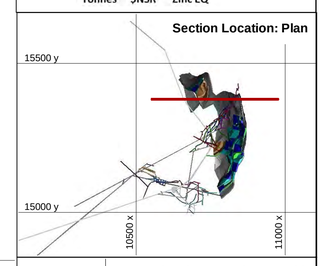
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- Cut and Fill
- Longitudinal
- Primary
- Secondary

Stope_Name

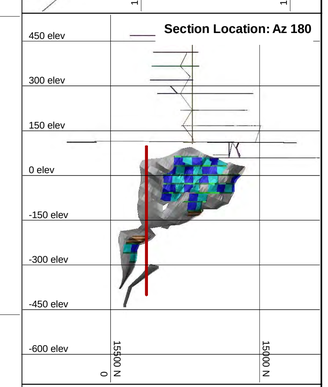
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15380N

CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az090 Sect 15380N; ±10m	21 Nov 2014

100 elev

50 elev

0 elev

-50 elev

-100 elev

-150 elev

-200 elev

-250 elev

-300 elev

-350 elev

10600 x

10700 x

10750 x

10800 x

10850 x

10900 x

TCU11428

TCU11170

TCU11175

TCU11169

TCU11161

TCU11173

TCU11180

TCU11172

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TCU91-31

TCU90-22

TCU11153

G01_CF_ST_01_-205

G01_CF_ST_01_-210

G01_CF_ST_01_-215

G01_CF_ST_01_-220

G01_CF_ST_01_-225

Geological Legend

Surface / End

- CASE casing
- EOH end of hole
- OVB overburden
- LOST

Intrusive Rocks

- BIN basalt intrusion
- BDK basalt dyke
- ADK andesite dyke
- FDK felsic dyke
- RDK rhyolite dyke
- SRD rhyolite dyke, Sloko Fm
- qfp quartz feldspar porphyry

Mafic Extrusive Rocks

- BAU basalt undivided
- BFL basalt flow
- BFLX basalt flow breccia
- BTF basalt tuff, undivided
- BAT basalt ash tuff
- BLAT basalt lapilli and ash tuff
- BLT basalt lapilli tuff
- BXLT basalt crystal lapilli tuff
- BFX basalt fragmental
- BDF basalt debris flow
- BAHY basalt hyaloclastite

Intermediate Extrusive Rocks

- AND andesite undivided
- ANDev evolved andesite
- AFL andesite flow
- AAT andesite ash tuff
- ALAT andesite lapilli and ash tuff
- AFX andesite fragmental
- DAU dacite, undivided
- DFL dacite flow
- DFLX dacite flow breccia
- DTF dacite tuff, undivided
- DAT dacite ash tuff
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RFL rhyolite flow
- RFLX rhyolite flow breccias
- RTF rhyolite tuff, undivided
- RAT rhyolite ash tuff
- RLAT rhyolite lapilli and ash tuff
- RLT rhyolite lapilli tuff
- RXLT rhyolite crystal lapilli tuff
- RFX rhyolite fragmental, coars
- RDF rhyolite debris flow
- RLS Rhyolite Lapilli Stone
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- CHT Chert
- LS limestone
- VSD Volcanic Sedimentary
- ARG argillite / tuffaceous
- SH shale (fissile)
- SLT siltstone / tuffaceous

Mineralized / Alteration

- MSX massive sulphides
- SMSX semi-massive sulphides
- SSX stringer zone sulphides
- SCBX sulphide clast breccia
- SSTK sulphide stockwork
- CUF copper facies
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies
- CHF chert facies
- GYF gypsum facies
- QSP quartz sericite pyrite
- CSP chlorite sericite pyrite
- CSS chlorite sericite alteration
- SBX hydrothermal breccia (sx)

Faults / Structures

- FAUL fault
- FLZN fault zone
- BX breccia, undivided
- FBX fault breccia
- FBXcr milled fault breccia (crush)
- QZVN quartz vein
- QZBX quartz vein breccia
- QSTK quartz stockwork, silica
- QCBX quartz carbonate vein

suffix codes

- 1 feldspar
- 2 quartz
- 3 amphibole
- 4 pyroxene
- 5 amygdaloidal
- qp quartz porphyry
- fp feldspar porphyry
- qfp quartz feldspar porphyry

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

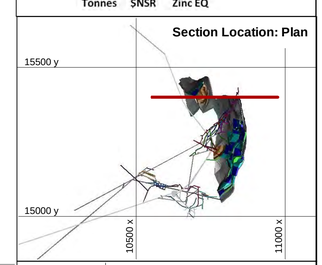
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name

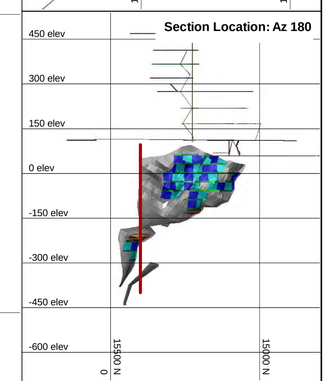
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15400N

CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az090 Sect 15400N; ±10m	21 Nov 2014

Geological Legend

Surface / End

- CASE casing
- EOH end of hole
- OVB overburden
- LOST

Intrusive Rocks

- BIN basalt intrusion
- RDK rhyolite dyke
- BDK basalt dyke
- SRD rhyolite dyke, Sloko Fm
- ADK andesite dyke
- qfp quartz feldspar porphyry
- FDK felsic dyke

Mafic Extrusive Rocks

- BAU basalt undivided
- BLT basalt lapilli tuff
- BFL basalt flow
- BXLT basalt crystal lapilli tuff
- BFLX basalt flow breccia
- BFX basalt fragmental
- BTF basalt tuff, undivided
- BDF basalt debris flow
- BAT basalt ash tuff
- BAHY basalt hyaloclastite
- BLAT basalt lapilli and ash tuff

Intermediate Extrusive Rocks

- AND andesite undivided
- DAU dacite, undivided
- ANDev evolved andesite
- DFL dacite flow
- AFL andesite flow
- DFLX dacite flow breccia
- AAT andesite ash tuff
- DTF dacite tuff, undivided
- ALAT andesite lapilli and ash tuff
- DAT dacite ash tuff
- AFX andesite fragmental
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RLT rhyolite lapilli tuff
- RFL rhyolite flow
- RXLT rhyolite crystal lapilli tuff
- RFLX rhyolite flow breccias
- RFX rhyolite fragmental, coars
- RTF rhyolite tuff, undivided
- RDF rhyolite debris flow
- RAT rhyolite ash tuff
- RLS Rhyolite Lapilli Stone
- RLAT rhyolite lapilli and ash tuff
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- ARG argillite / tuffaceous
- CHT Chert
- SH shale (fissile)
- LS limestone
- SLT siltstone / tuffaceous
- VSD Volcanic Sedimentary

Mineralized / Alteration

- MSX massive sulphides
- CHF chert facies
- SMSX semi-massive sulphides
- GYF gypsum facies
- SSX stringer zone sulphides
- QSP quartz sericite pyrite
- SCBX sulphide clast breccia
- CSP chlorite sericite pyrite
- SSTK sulphide stockwork
- CSS chlorite sericite alteration
- CUF copper facies
- SBX hydrothermal breccia (sx)
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies

Faults / Structures

- FAUL fault
- QZVN quartz vein
- FLZN fault zone
- QZBX quartz vein breccia
- BX breccia, undivided
- QSTK quartz stockwork, silica
- FBX fault breccia
- QCBX quartz carbonate vein
- FBXcr milled fault breccia (crush)

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

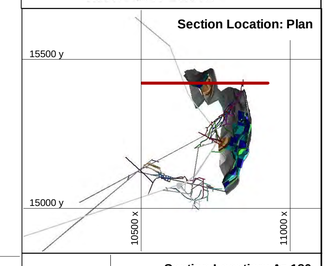
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name

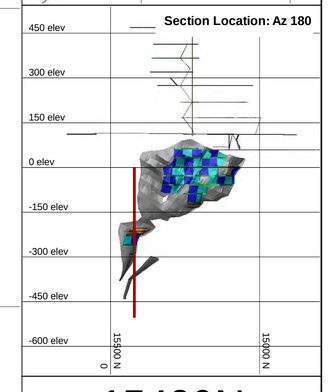
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15420N

CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

Scale 1:500 (-5 0 5 10 15 20 25 metres)

Drawn by: BA	Vert Az090 Sect 15420N; ±10m	21 Nov 2014

0 elev
-50 elev
-100 elev
-150 elev
-200 elev
-250 elev
-300 elev
-350 elev
-400 elev
-450 elev
-500 elev
10500 x
10600 x
10700 x
10750 x
10800 x
10850 x

TCU11185
TCU11178
TCU11170
TCU93-48
TCU11175
TCU11169
TCU11161
TCU11183
TCU11173
TCU11181
TCU93-41
TCU11180
TCU11172
TCU93-58
TCU11174
TCU11159
TCU93-56
TCU04114
TCU11186
TCU11176
TCU94066
TCU11182
TCU04121
TCU91-31
TCU11158
TCU93-53
TCU94062
TCU11177
TCU04107
TCU04126
TCU04097
TCU04110
TCU04104
TCU04118
TCU90-22
TCU04117
TCU04119
TCU11189
TCU04115
TCU04106
TCU04096
TCU91-30
TCU90-25
TCU11179
TCU90-24
TCU04100
TCU04112

G01_LT_ST_02_-260
3.05 72.0 1.36 0.49 7.33
8,429t $275.21 27.4 Zn EQ

G01_LT_DO_01_-260
3.43 74.8 1.51 0.53 8.53
4,088t $308.92 30.8 Zn EQ

Geological Legend

Surface / End

- CASE casing
- EOH end of hole
- OVB overburden
- LOST

Intrusive Rocks

- BIN basalt intrusion
- RDK rhyolite dyke
- BDK basalt dyke
- SRD rhyolite dyke, Sloko Fm
- ADK andesite dyke
- qfp quartz feldspar porphyry
- FDK felsic dyke

Mafic Extrusive Rocks

- BAU basalt undivided
- BLT basalt lapilli tuff
- BFL basalt flow
- BXLT basalt crystal lapilli tuff
- BFLX basalt flow breccia
- BFX basalt fragmental
- BTF basalt tuff, undivided
- BDF basalt debris flow
- BAT basalt ash tuff
- BAHY basalt hyaloclastite
- BLAT basalt lapilli and ash tuff

Intermediate Extrusive Rocks

- AND andesite undivided
- DAU dacite, undivided
- ANDev evolved andesite
- DFL dacite flow
- AFL andesite flow
- DFLX dacite flow breccia
- AAT andesite ash tuff
- DTF dacite tuff, undivided
- ALAT andesite lapilli and ash tuff
- DAT dacite ash tuff
- AFX andesite fragmental
- DLT dacite lapilli tuff
- DBF dacite debris flow

Felsic Extrusive Rocks

- RYU rhyolite, undivided
- RLT rhyolite lapilli tuff
- RFL rhyolite flow
- RXLT rhyolite crystal lapilli tuff
- RFLX rhyolite flow breccias
- RFX rhyolite fragmental, coars
- RTF rhyolite tuff, undivided
- RDF rhyolite debris flow
- RAT rhyolite ash tuff
- RLS Rhyolite Lapilli Stone
- RLAT rhyolite lapilli and ash tuff
- FEVL felsic volcanics, undivided

Sedimentary Rocks

- AGGL agglomerate
- ARG argillite / tuffaceous
- CHT Chert
- SH shale (fissile)
- LS limestone
- SLT siltstone / tuffaceous
- VSD Volcanic Sedimentary

Mineralized / Alteration

- MSX massive sulphides
- CHF chert facies
- SMSX semi-massive sulphides
- GYF gypsum facies
- SSX stringer zone sulphides
- QSP quartz sericite pyrite
- SCBX sulphide clast breccia
- CSP chlorite sericite pyrite
- SSTK sulphide stockwork
- CSS chlorite sericite alteration
- CUF copper facies
- SBX hydrothermal breccia (sx)
- ZNF zinc facies
- PBF lead facies
- PYF pyrite facies

Faults / Structures

- FAUL fault
- QZVN quartz vein
- FLZN fault zone
- QZBX quartz vein breccia
- BX breccia, undivided
- QSTK quartz stockwork, silica
- FBX fault breccia
- QCBX quartz carbonate vein
- FBXcr milled fault breccia (crush)

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

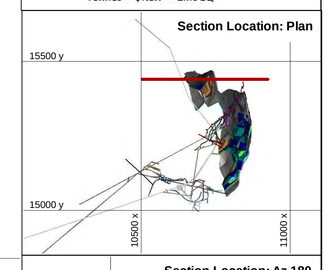
Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

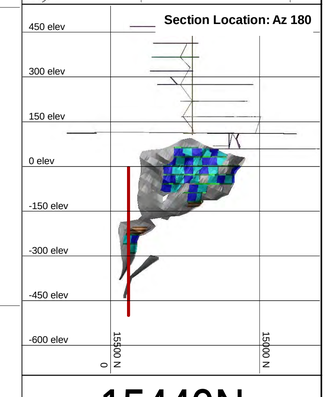
- Development
- Cut and Fill
- Primary
- Longitudinal
- Secondary

Stope_Name
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)
Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15440N

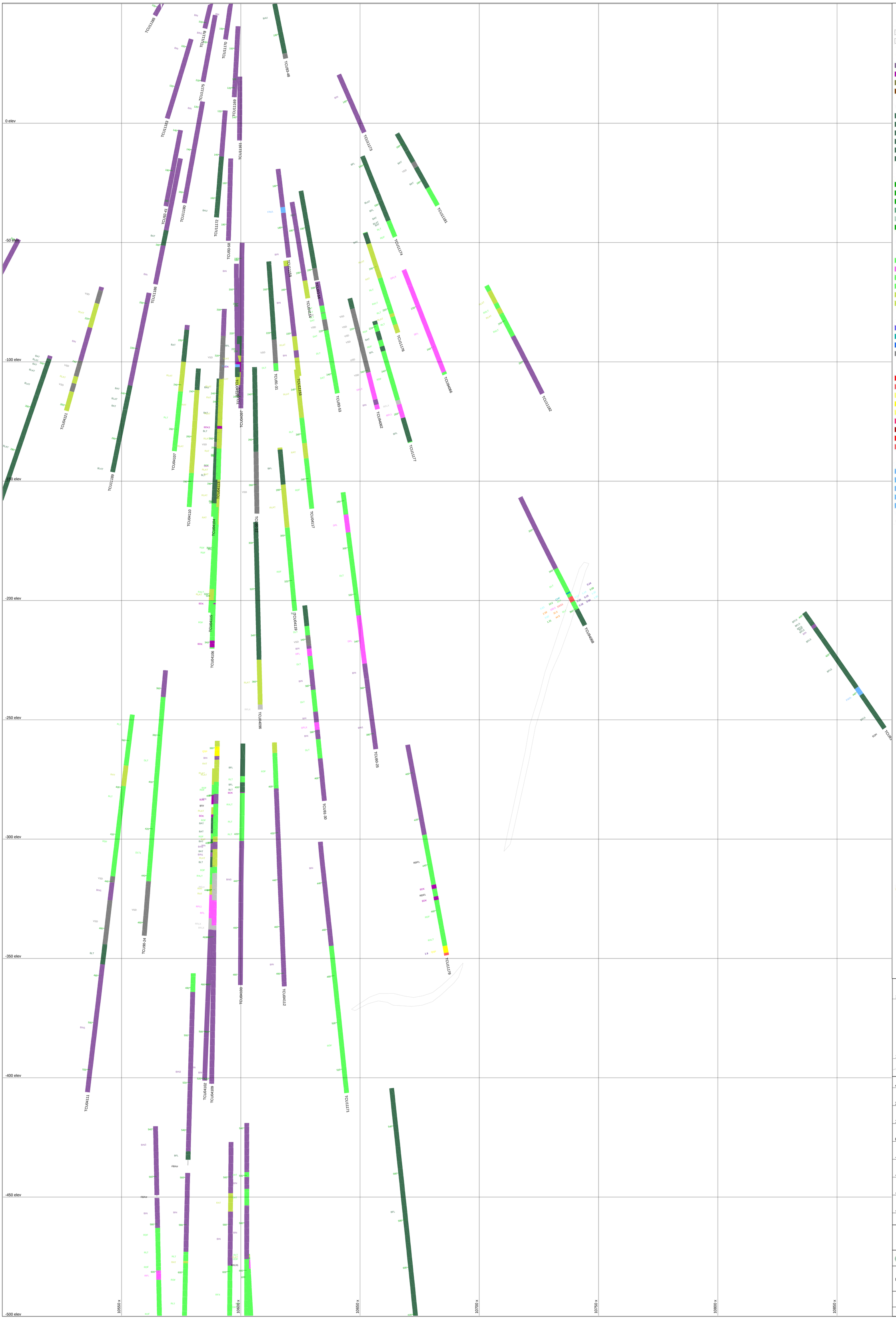
CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

Scale 1:500 (-5 0 5 10 15 20 25 metres)

Drawn by: BA	Vert Az090 Sect 15440N; ±10m	21 Nov 2014



Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

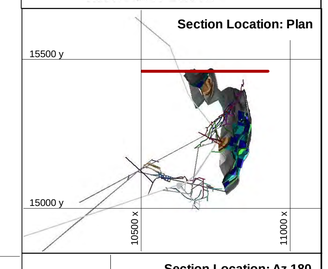
Development
Cut and Fill
Primary
Longitudinal
Secondary

Stope_Name

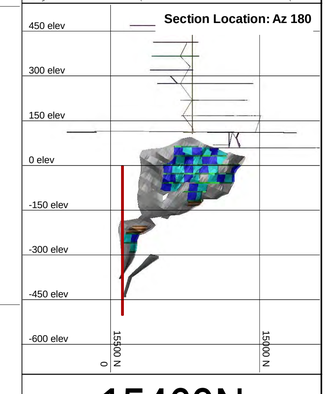
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15460N

CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

Scale 1:500 (-5 0 5 10 15 20 25 metres)

Drawn by: BA	Vert Az090 Sect 15460N; ±10m	21 Nov 2014

0 elev
-50 elev
-100 elev
-150 elev
-200 elev
-250 elev
-300 elev
-350 elev
-400 elev
-450 elev
-500 elev
10550 x
10600 x
10650 x
10700 x
10750 x
10800 x
10850 x

Geological Legend

Surface / End

CASE	casing	EOH	end of hole
OVB	overburden	LOST	

Intrusive Rocks

BIN	basalt intrusion	RDK	rhyolite dyke
BDK	basalt dyke	SRD	rhyolite dyke, Sloko Fm
ADK	andesite dyke	qfp	quartz feldspar porphyry
FDK	felsic dyke		

Mafic Extrusive Rocks

BAU	basalt undivided	BLT	basalt lapilli tuff
BFL	basalt flow	BXLT	basalt crystal lapilli tuff
BFLX	basalt flow breccia	BFX	basalt fragmental
BTF	basalt tuff, undivided	BDF	basalt debris flow
BAT	basalt ash tuff	BAHY	basalt hyaloclastite
BLAT	basalt lapilli and ash tuff		

Intermediate Extrusive Rocks

AND	andesite undivided	DAU	dacite, undivided
ANDev	evolved andesite	DFL	dacite flow
AFL	andesite flow	DFLX	dacite flow breccia
AAT	andesite ash tuff	DTF	dacite tuff, undivided
ALAT	andesite lapilli and ash tuff	DAT	dacite ash tuff
AFX	andesite fragmental	DLT	dacite lapilli tuff
		DBF	dacite debris flow

Felsic Extrusive Rocks

RYU	rhyolite, undivided	RLT	rhyolite lapilli tuff
RFL	rhyolite flow	RXLT	rhyolite crystal lapilli tuff
RFLX	rhyolite flow breccias	RFX	rhyolite fragmental, coars
RTF	rhyolite tuff, undivided	RDF	rhyolite debris flow
RAT	rhyolite ash tuff	RLS	Rhyolite Lapilli Stone
RLAT	rhyolite lapilli and ash tuff	FEVL	felsic volcanics, undivided

Sedimentary Rocks

AGGL	agglomerate	ARG	argillite / tuffaceous
CHT	Chert	SH	shale (fissile)
LS	limestone	SLT	siltstone / tuffaceous
VSD	Volcanic Sedimentary		

Mineralized / Alteration

MSX	massive sulphides	CHF	chert facies
SMSX	semi-massive sulphides	GYF	gypsum facies
SSX	stringer zone sulphides	QSP	quartz sericite pyrite
SCBX	sulphide clast breccia	CSP	chlorite sericite pyrite
SSTK	sulphide stockwork	CSS	chlorite sericite alteration
CUF	copper facies	SBX	hydrothermal breccia (sx)
ZNF	zinc facies		
PBF	lead facies		
PYF	pyrite facies		

Faults / Structures

FAUL	fault	QZVN	quartz vein
FLZN	fault zone	QZBX	quartz vein breccia
BX	breccia, undivided	QSTK	quartz stockwork, silica
FBX	fault breccia	QCBX	quartz carbonate vein
FBXcr	milled fault breccia (crush)		

suffix codes

1	feldspar	qp	quartz porphyry
2	quartz	fp	feldspar porphyry
3	amphibole	qfp	quartz feldspar porphyry
4	pyroxene		
5	amygdaloidal		

Drillhole Trace Information

Au(g/t) Ag(g/t) Lithology Depth(m) DH Trace Cu(%) Pb (%) Zn(%)

2014 Stope Information

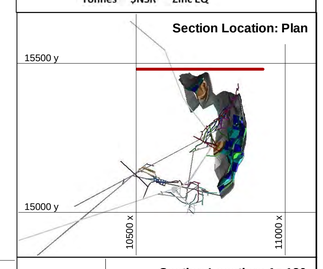
Development
Cut and Fill
Longitudinal
Primary
Secondary

Stope_Name

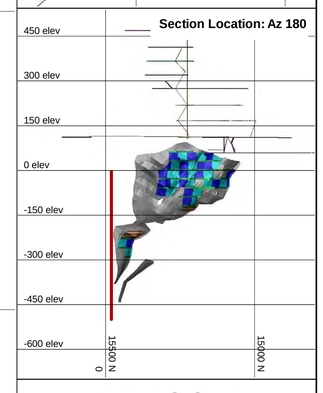
Au (g/t) Ag (g/t) Cu (%) Pb (%) Zn (%)

Tonnes $NSR Zinc EQ

Section Location: Plan



Section Location: Az 180



15480N

CHIEFTAIN METALS INC

Tulsequah Chief G Lenses: 2014 JDS Mine Plan Stopes

Resource Lenses(grey), 2014 Stopes(coloured), All Drilling with Resource two metre capped Assay Composites

-5 0 5 10 15 20 25 metres

Scale 1:500

Drawn by: BA	Vert Az090 Sect 15480N; ±10m	21 Nov 2014