



**The R15 Polymetallic VMS Deposit:
An Emerging Discovery in the Finlayson Lake District**

Yukon Geoscience Forum
November 2012

Gilles Dessureau, M.Sc., P.Geo
V.P., Exploration



Redtail Metals Corporation

- Introduction
- Who we are and what we do

Finlayson Lake District

- Regional Geology
- VMS Deposits

R15 Property

- History and Agreement
- Geology
- Stratigraphy
- Massive Sulphide
- Deposit Model
- Global Comparison



Redtail Metals Corporate Mandate



Redtail Metals specializes in acquiring and developing quality precious metal enriched copper, lead and zinc mineral deposits in the Yukon, Canada.

11 properties in the Yukon including:

Marg VMS Deposit

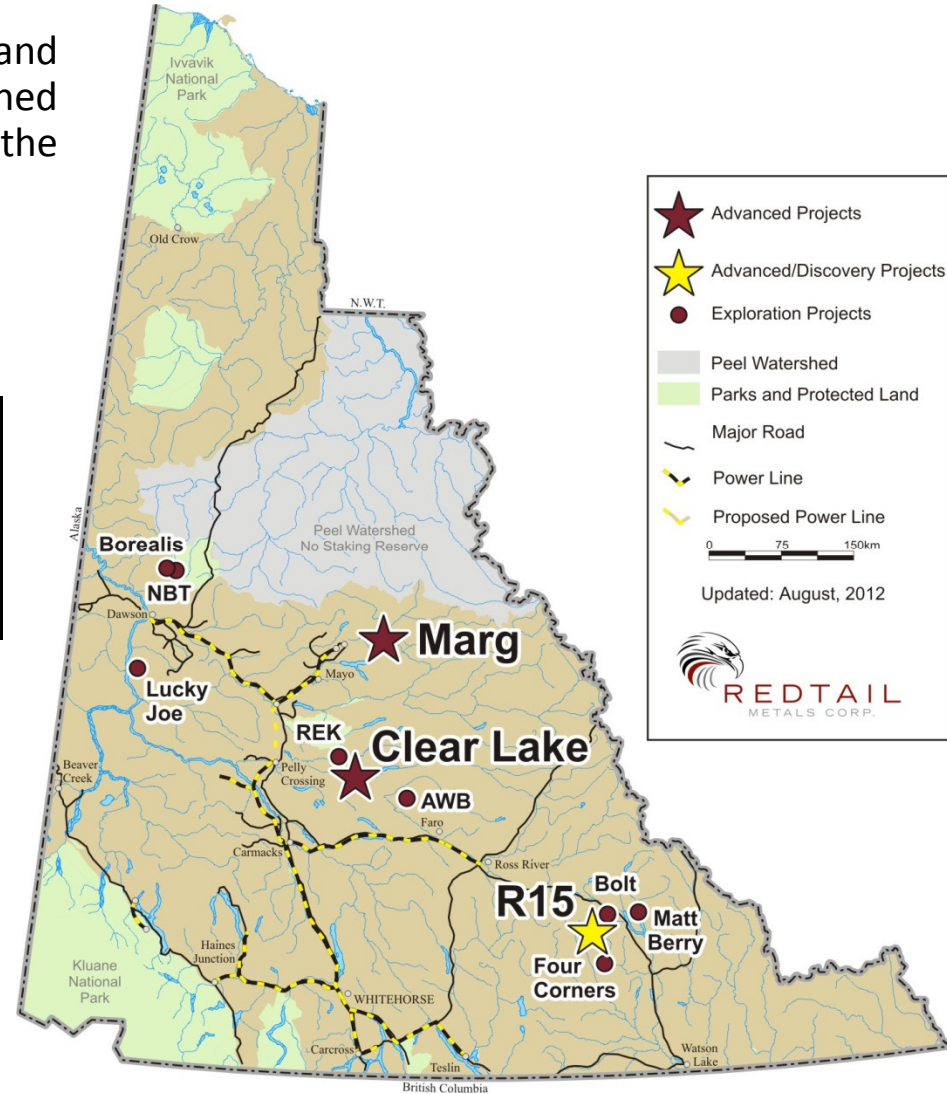
Marg Deposit							
NI 43-101 Mineral Resource Estimate ⁽¹⁾							
	Tonnes	Cut-off (Cu %)	Cu (%)	Pb (%)	Zn (%)	Ag (g/t)	Au (g/t)
Indicated	3,960,000	0.5	1.57	1.92	3.90	49.40	0.79
Inferred	7,780,000	0.5	1.12	1.36	2.89	34.88	0.52

Clear Lake SEDEX Deposit

Clear Lake Deposit					
NI 43-101 Mineral Resource Estimate ⁽²⁾					
	Tonnes	Cut-off (Zn + Pb %)	Zn (%)	Pb (%)	Ag (g/t)
Inferred	7,765,000	4.0	7.60	1.08	22

R15 VMS Discovery

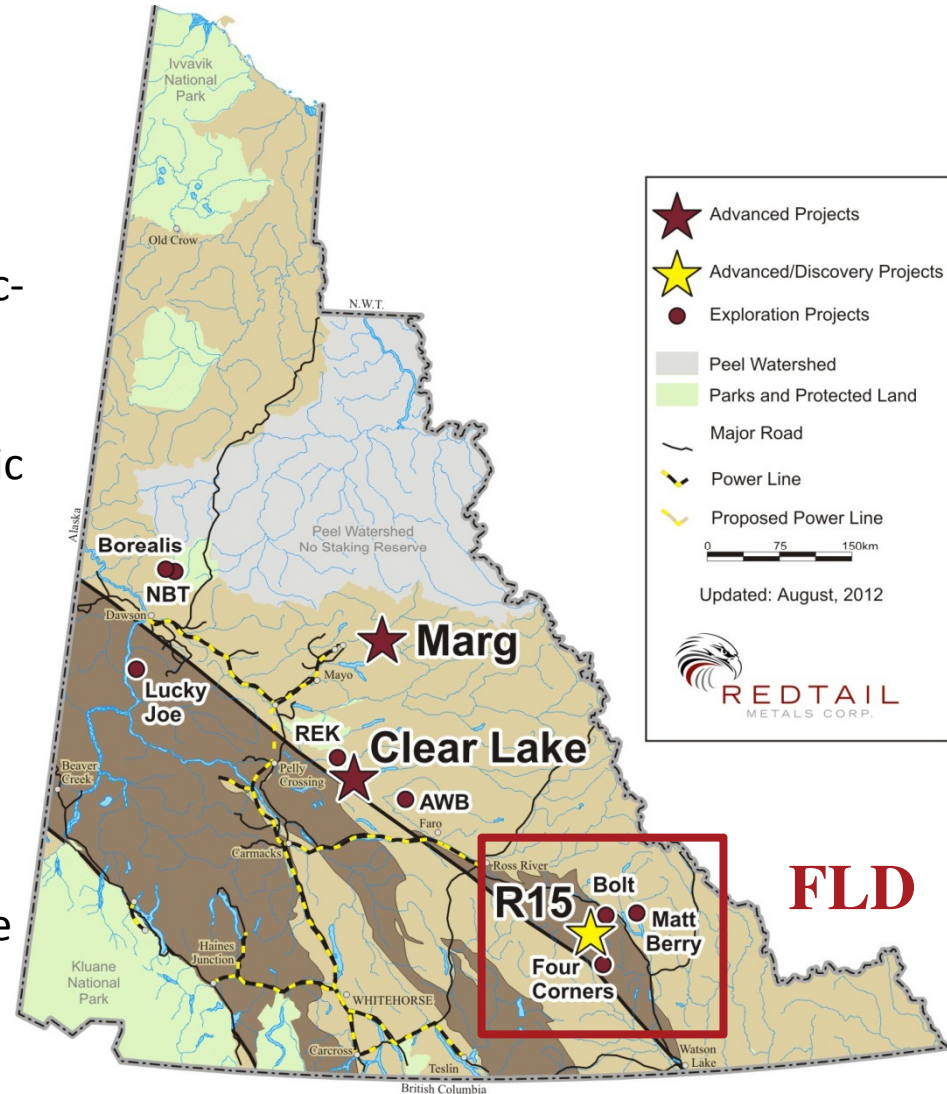
Newest acquisition



Finlayson Lake District – Regional Geology



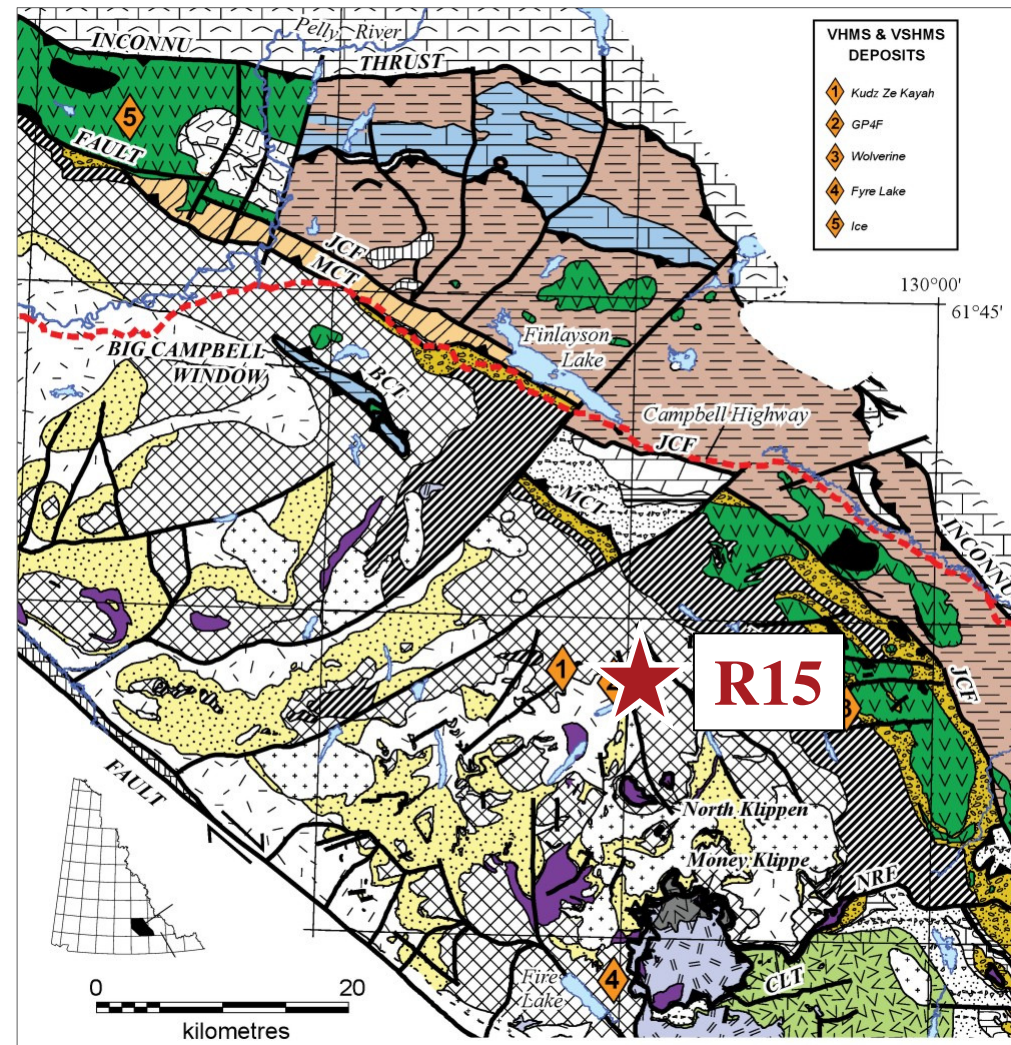
- Finlayson Lake District is a crescent shaped portion of the Yukon Tanana Terrain.
- **Devonian-Mississippian** Continental Arc-Back Basin Sequence
- Consists of polydeformed - metamorphic sedimentary, volcanic, and plutonic rocks.
- Thrust upon the Pacific Margin of Ancestral North America
- Hosts a number of VMS deposits including the producing Wolverine Mine and the R15 discovery



Finlayson Lake District – VMS Deposits



- Consists of a series of NW trending thrusts sheets
- Bound in the NE by the Inconnu Thrust and the Tintina Fault in the SW
- Youngest rocks to the northeast, oldest Rocks to the Southwest
- Contains at least 6 VMS deposits: Ice, Wolverine, Kudz Ze Kayah, GP4F, Fyre Lake, and R15
- Big Campbell Thrust Sheet host to all VMS Deposits



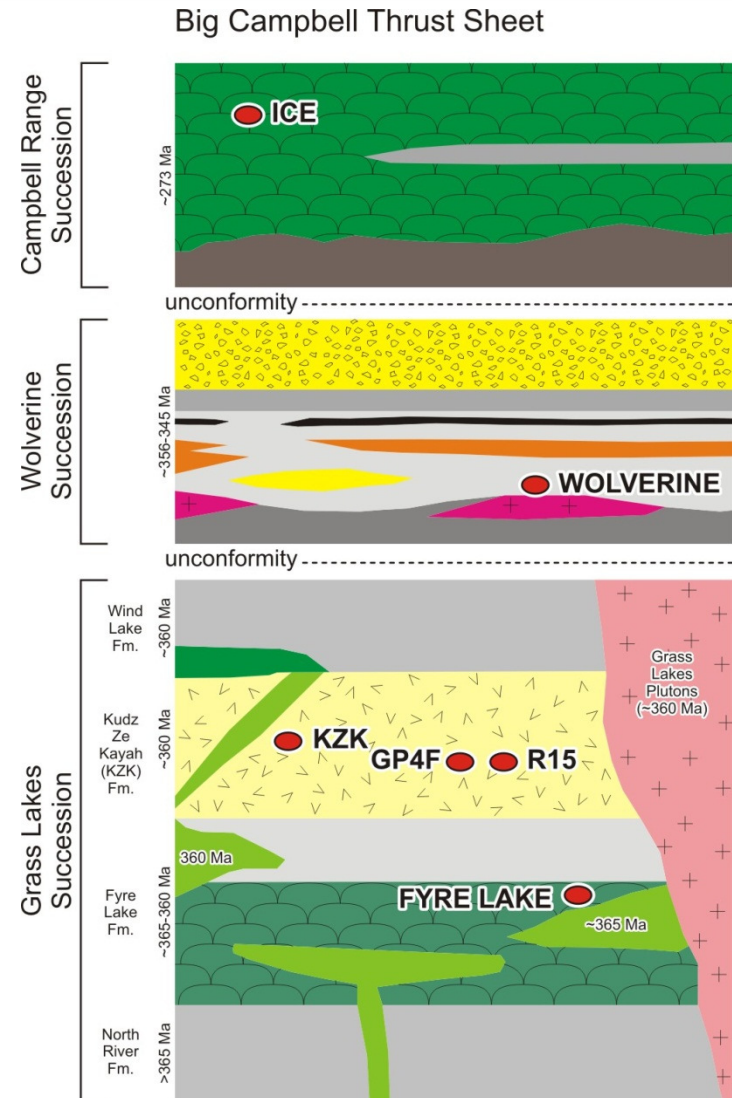
Modified after Murphy et al. 2006

Finlayson Lake District – Stratigraphy



Big Campbell Thrust Sheet

- **Campbell Range Succession**
mafic volcanics and sediments
- **Wolverine Succession**
Felsic volcanics
Fine carbonaceous and siliceous sediments
Exhalative sequence
Sub-volcanic intrusions
- **Grass Lakes Succession**
Wind Lake Fm. - argillite and fine sediments
Kudz Ze Kayah Fm. - felsic volcanics
Fyre Lake Fm. - mafic volcanics and sediments
North River Fm. - argillite and fine sediments

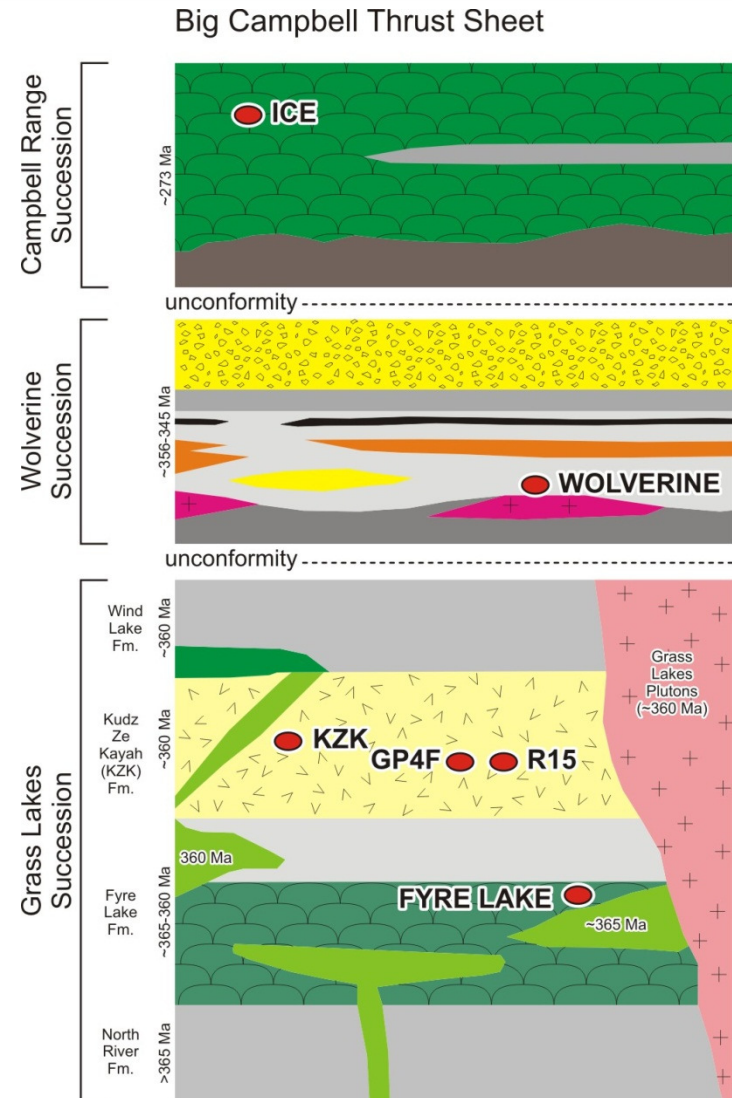


Modified after Bradshaw, G.D., 2003

Finlayson Lake District – Volcanic Massive Sulphides



- Ice - Mafic, Cyprus-style VMS**
 Indicated Resource 4.5M tonnes @
 1.48% Cu
- Wolverine - Siliciclastic-Felsic (Bimodal-Felsic) VMS**
 M and I - 4.4M tonnes @
 12.14% Zn, 1.58% Pb, 1.16% Cu, 354 g/t Ag, 1.7 g/t Au
 Inferred - 1.6M tonnes @
 12.16% Zn, 1.74% Pb, 1.23% Cu, 385 g/t Ag, 1.7 g/t Au
- Kudz Ze Kayah - Bimodal-Felsic, Kuroko-style VMS**
 Indicated - 13.7M tonnes @
 6.0% Zn, 1.61% Pb, 0.90% Cu, 139 g/t Ag, 1.38 g/t Au
- GP4F - Bimodal-Felsic, Kuroko-style VMS**
 Inferred - 1.5M tonnes @
 6.4% Zn, 3.1% Pb, 0.10% Cu, 90.0 g/t Ag, 2.0 g/t Au
- Fyre Lake - Pelitic-Mafic, Besshi-style VMS**
 Indicated - 3.6M tonnes @
 1.57% Cu, 0.10% Co, 0.61 g/t Au
 Inferred - 5.4M tonnes
 1.48% Cu, 0.08% Co, 0.53 g/t Au

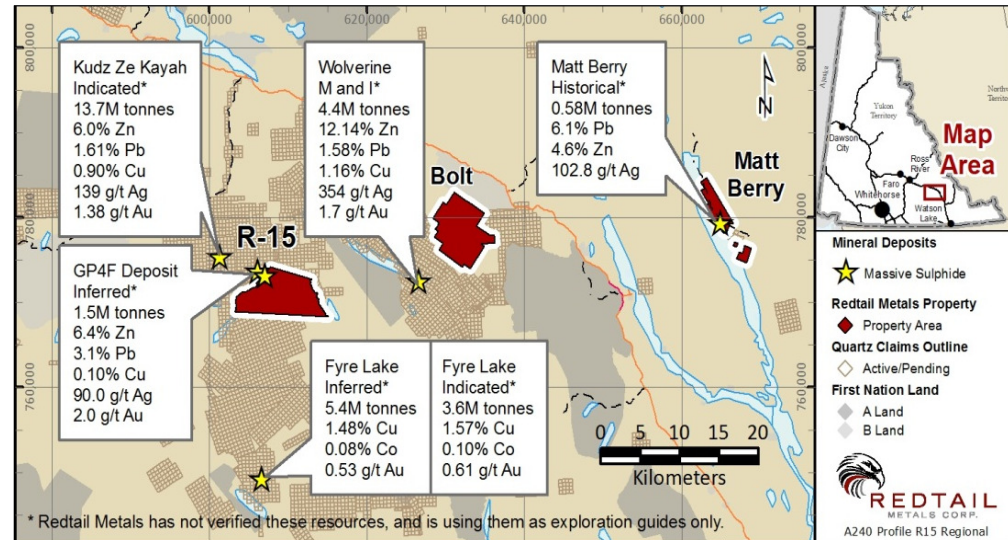


Modified after Bradshaw, G.D., 2003

R15 – Property Description and Agreement



- R15 is a 43 km² Yukon Government Lease of Mining Rights dated February 3, 2004 between Yukon Government and Kaska Minerals Corporation.
- Redtail signed an Option Agreement with Kaska Mineral Corporation to acquire 95% Participating Interest (Press Release Aug 23, 2012)
- Redtail also signed an Exploration Memorandum of Understanding and a Traditional Knowledge Protocol
- It is located 120km ESE of Ross River, 25km southwest of the Robert Campbell Highway
- Access was by helicopter from KZK



R15 – Property History



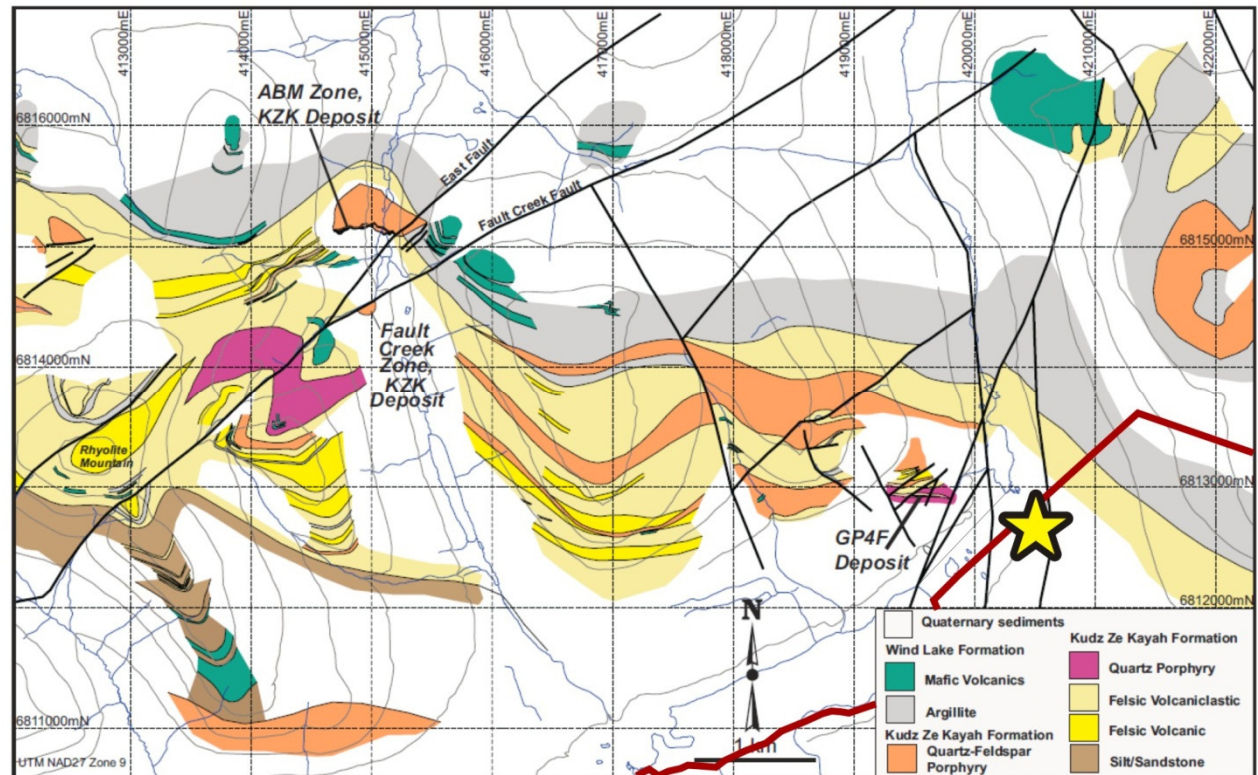
- In 2004, Yukon Government issued Lease of Mining Rights to Kaska Mineral Corporation dated February 3, 2004.
- In 2004, Teck Cominco Ltd. optioned the property and completed ground UTEM geophysical survey before drilling 7 holes on the property. Four holes intersected the R15 Mineralization
- Teck subsequently terminated the option agreement stating the target is too small and never released the details of the project
- In 2012, Redtail Metals signed an option agreement with Kaska Mineral Corp. and drilled 5 diamond drill holes for a total of 686.88m
- Redtail Metals intersected significant massive sulphide mineralization in all 5 holes.



R15 – Regional Geology



- Covered by approximately 30m of glacial overburden
- Hosted within the Kudz Ze Kayah stratigraphy
- Felsic volcanic flows, tuffs, volcanoclastic, syn-volcanic felsic intrusions, metasediments
- Stratigraphy strikes 330° and dips 10-15°
- Argillite to the north, silt/sandstone to the south
- Along strike from GP4F



Geology modified after (Peter et al. 2007)(after Cominco Ltd., unpub. data, 1997)

R15 – 2012 Results



**2012 Diamond Drill Holes from the Main Zone, R15 Property, Yukon
Significant Intersections ^{(1), (2)}**

Drill Hole	From (m)	To (m)	Length (m)	Zn (%)	Pb (%)	Cu (%)	Ag (ppm)	Au (ppm)
R12-09	101.68	108.67	6.99	7.68	3.05	0.28	30.21	0.059
R12-10	154.23	160.66	6.43	6.31	2.88	0.30	48.64	0.124
R12-11	100.12	108.37	8.25	8.49	3.94	0.24	34.70	0.061
R12-12	122.56	128.3	5.74	7.82	2.27	0.27	38.98	0.252
R12-13	104.72	109.6	4.88	9.59	4.38	0.38	61.56	0.039



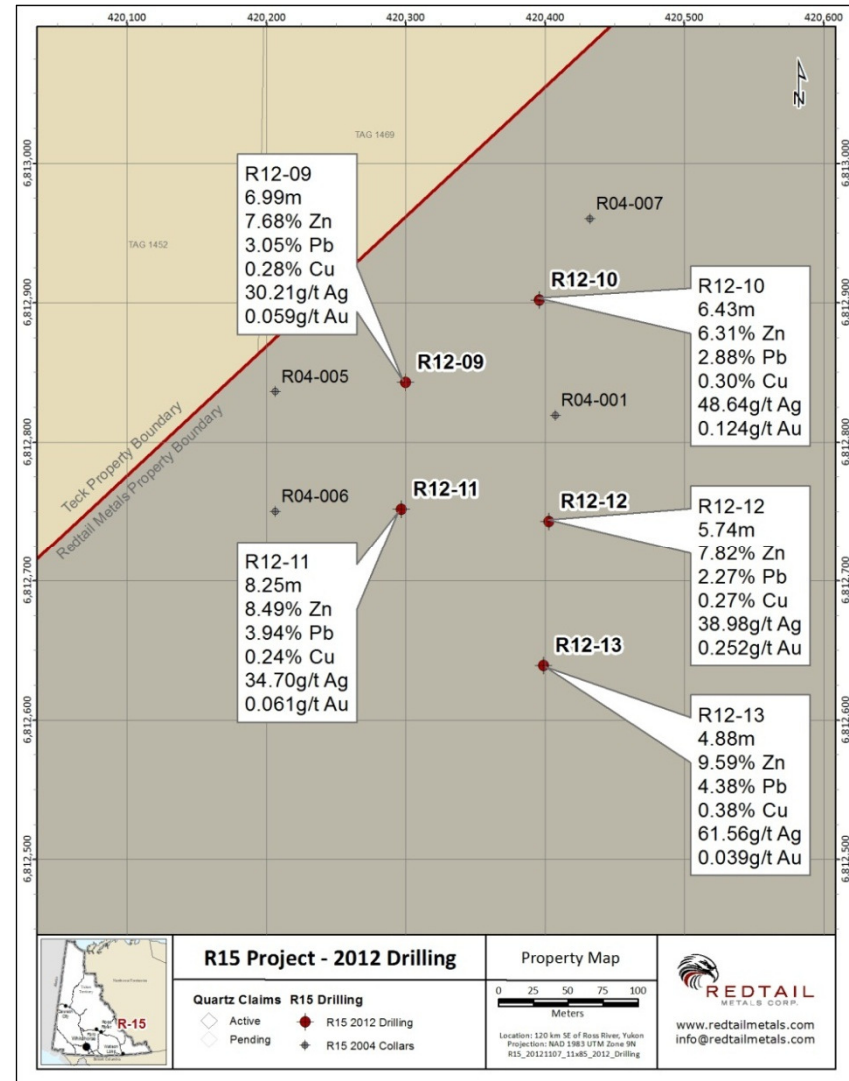
(1) Intersections were calculated by compositing continuous samples above a 2% Zn Cutoff Grade

(2) All assays are reported as drilled intervals and are interpreted to be true widths as drilling was roughly perpendicular to the mineralized horizon.

R15 – 2012 Results



- Massive Sulphide including: sphalerite, galena, pyrrhotite, pyrite, chalcopyrite
- Sub-seafloor Replacement Textures



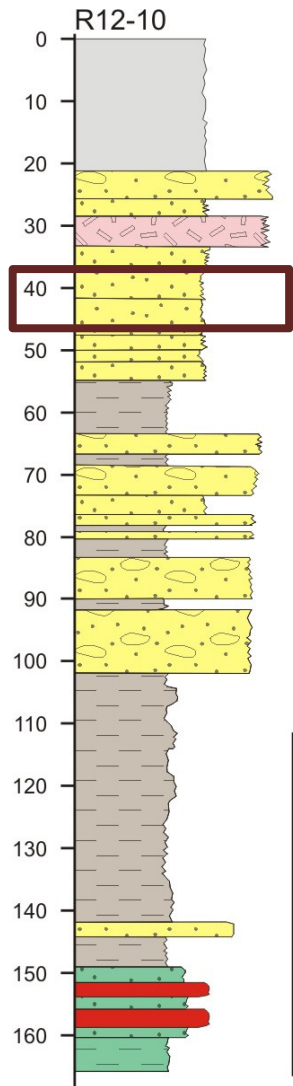
R15 – Deposit Stratigraphy and Cross Section



Feldspar Porphyry – Massive to foliated quartz feldspar sericite schist



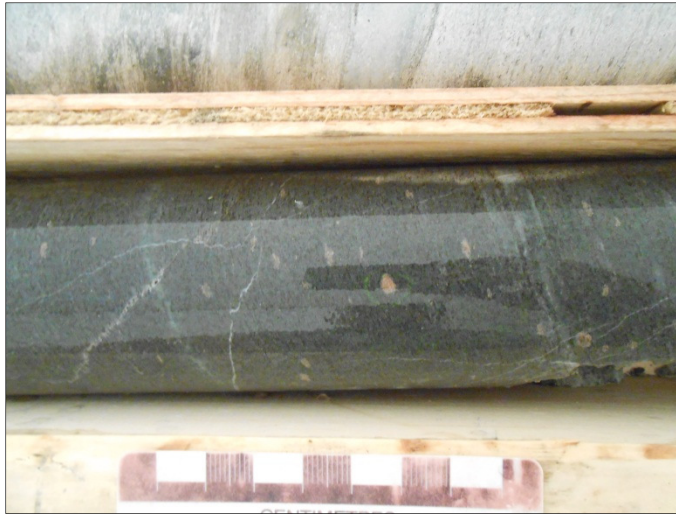
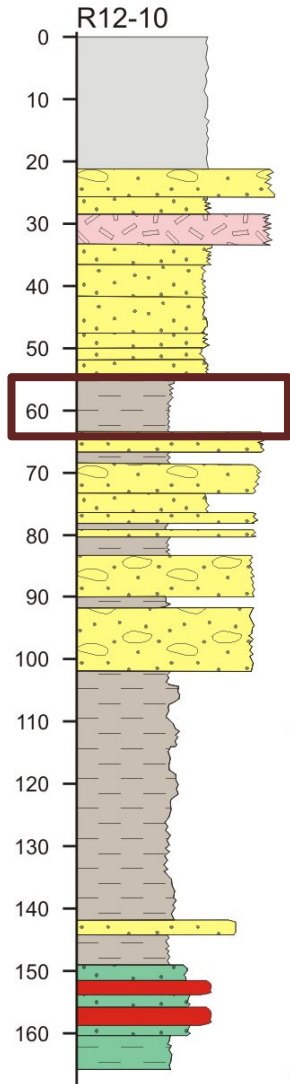
R15 – Deposit Stratigraphy and Cross Section



Felsic Ash Tuff - Fine grain, massive, weakly to moderately foliated quartz sericite schist



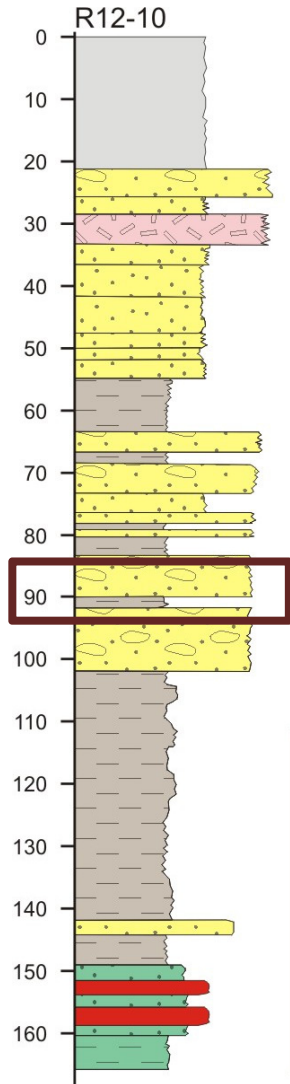
R15 – Deposit Stratigraphy and Cross Section



Mudstone - Dark grey, greenish grey, brown, strongly foliated, biotite, chlorite, quartz + garnet schist



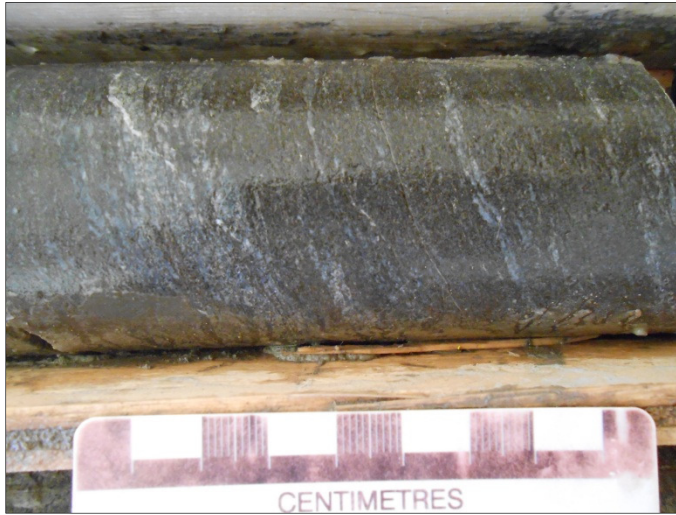
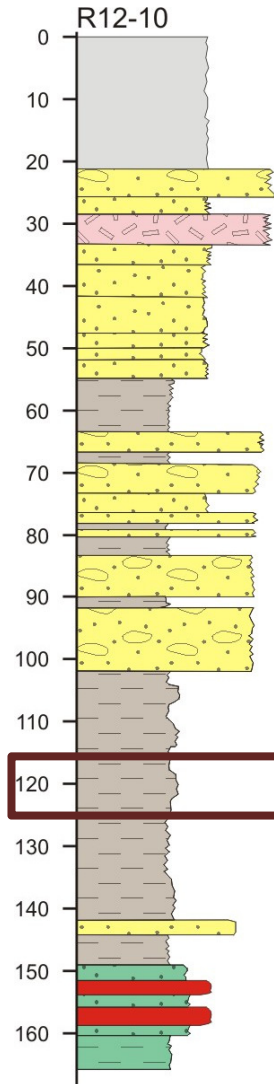
R15 – Deposit Stratigraphy and Cross Section



Felsic Lapilli Tuff- Light grey, strongly foliated, quartz sericite schist 1-2cm elongated aligned felsic lapilli



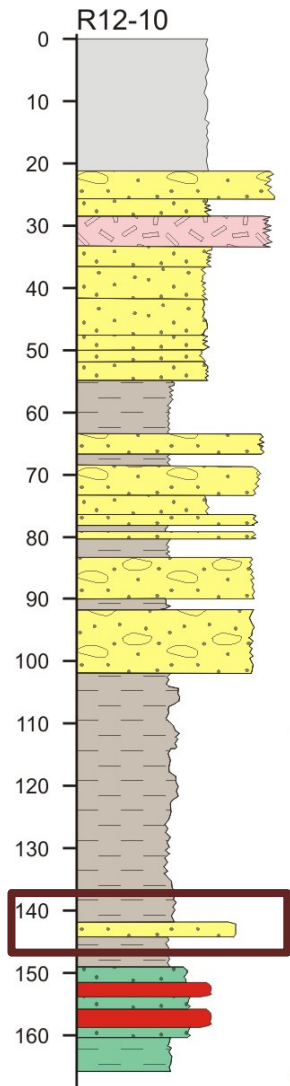
R15 – Deposit Stratigraphy and Cross Section



Siltstone/wacke - Med grey to med brown, strongly foliated, quartz biotite, chlorite schist



R15 – Deposit Stratigraphy and Cross Section



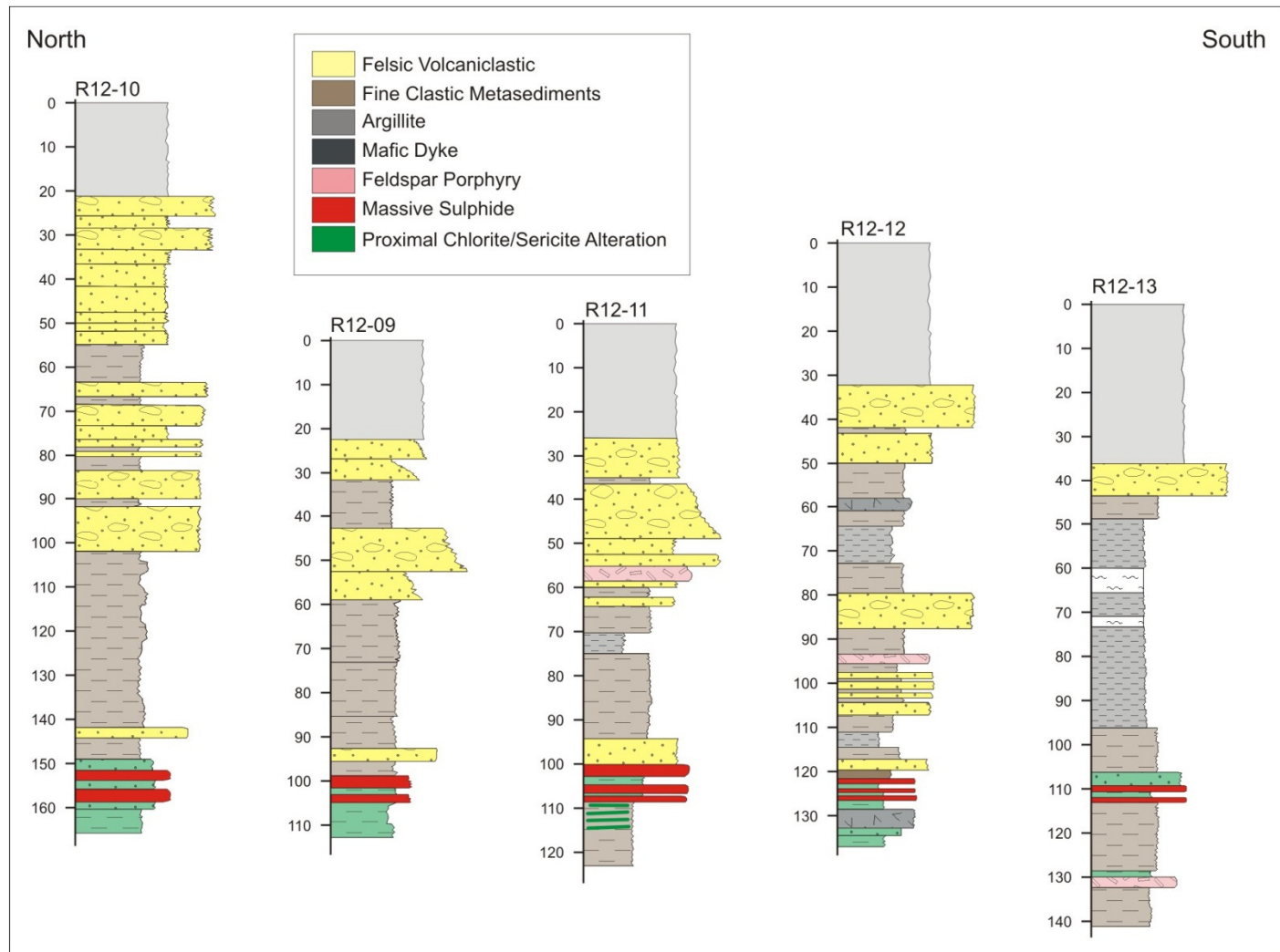
Massive Rhyolite - Light grey, massive to mottled quartz sericite schist. Possible flow banding and brecciation



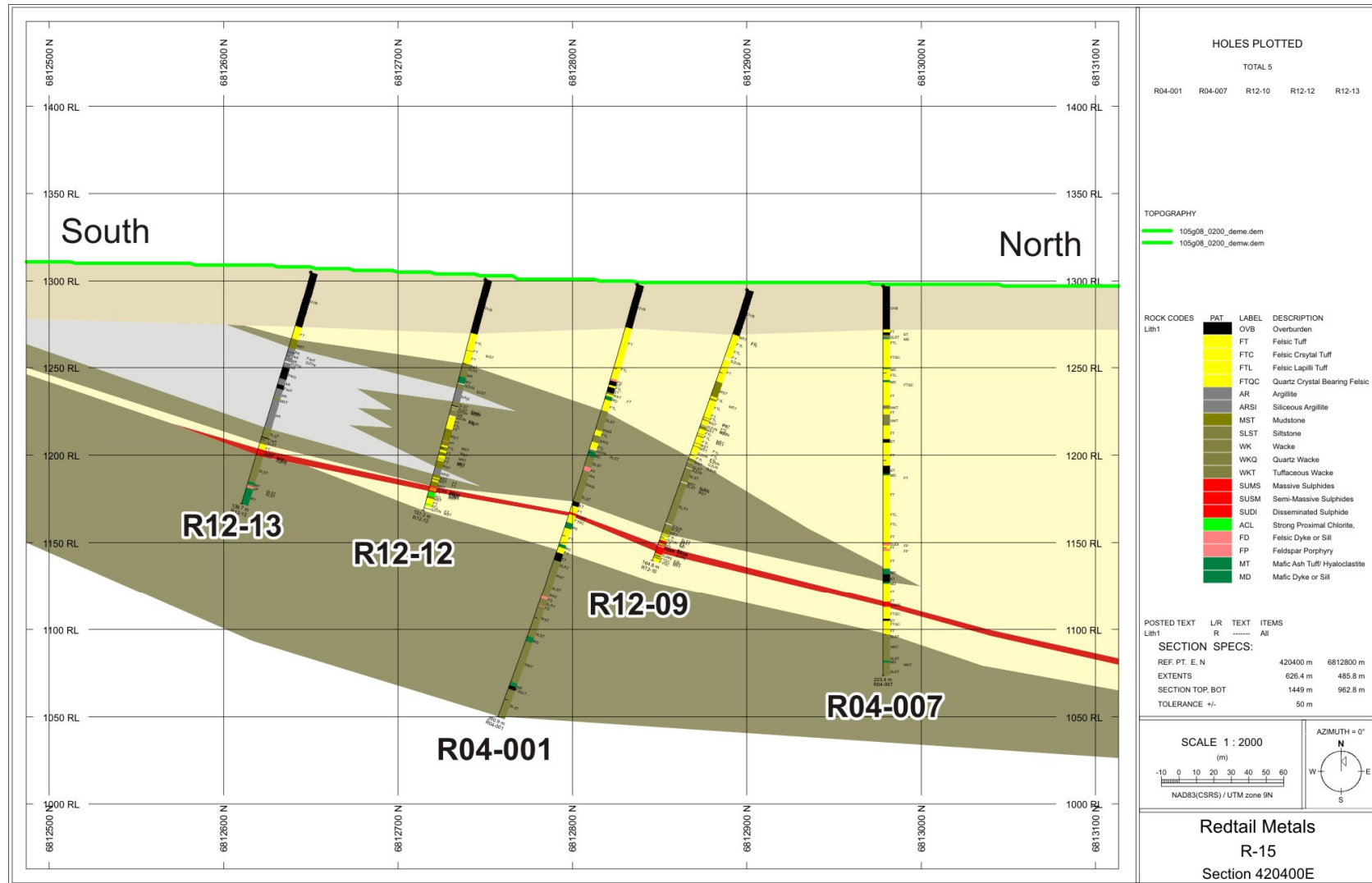
R15 – Deposit Stratigraphy and Cross Section



- Upper metavolcanic sequence
- Lower metaclastic sequence
- More metavolcanics to the north
- More metasediments to the south
- More carbonaceous argillite to the south



R15 – Deposit Stratigraphy and Cross Section



R15 – Structure and Metamorphism



Regional Metamorphism

Upper Greenschist-lower amphibolite metamorphism

Dominant Regional foliation – relatively flat lying ($330^{\circ} 10^{\circ}$)



Abundant tight isoclinal folding

Dominantly ductile deformation with rare brittle structures



R15 – Alteration



Hangingwall

- Sericite
- Quartz (\pm Pyrite)
- Minor Chlorite



Footwall

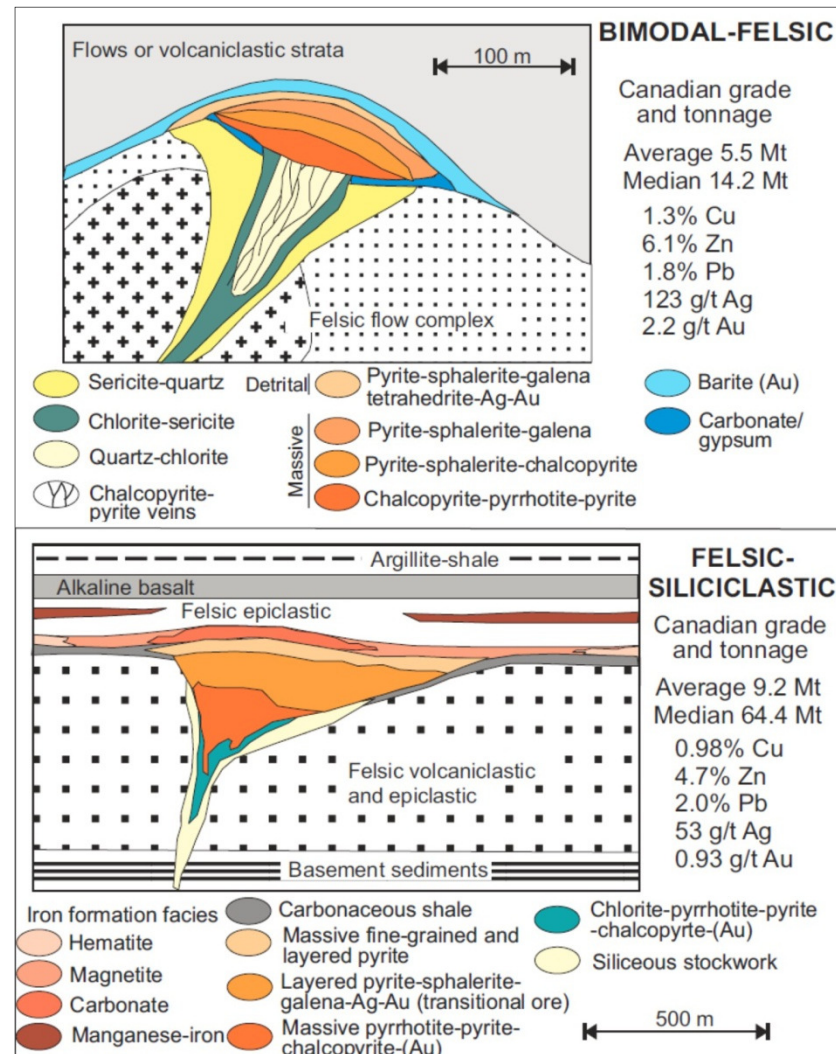
- Chlorite
- Quartz + Sulphide
- Biotite
- Iron-Carbonate



R15 – Deposit Model



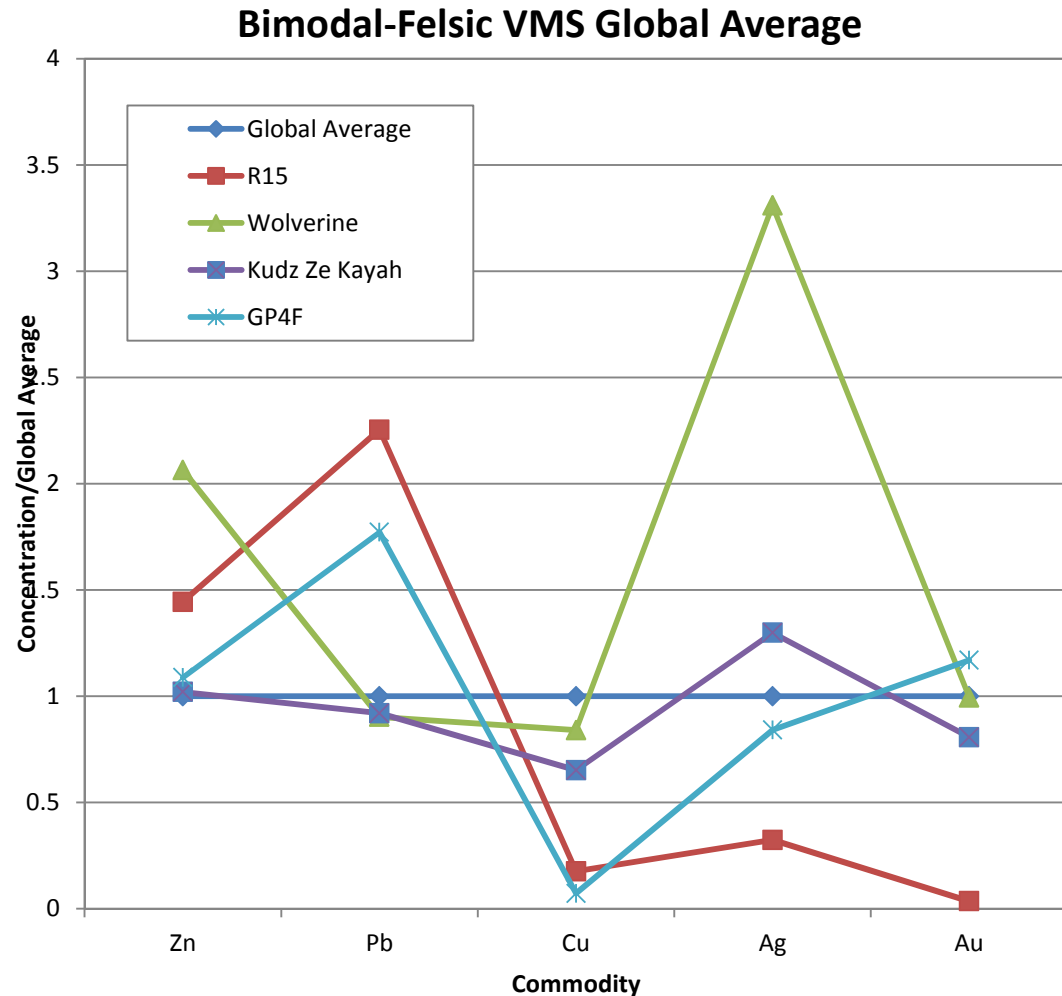
- R15 is a Bimodal-Felsic (Kuroko) style volcanic-hosted massive sulphide deposit
 - Felsic Volcanics and subvolcanic intrusions
- Some components of a Siliciclastic-Felsic VMS systems
 - Abundant siliclastic sediments
 - Abundant carbonaceous argillite
 - Alkalic Mafics (Peircey et al., 1998)
- Question:
 - No significant Feeder zone. Are we still distal to the feeder zone?



R15 – Global Comparison



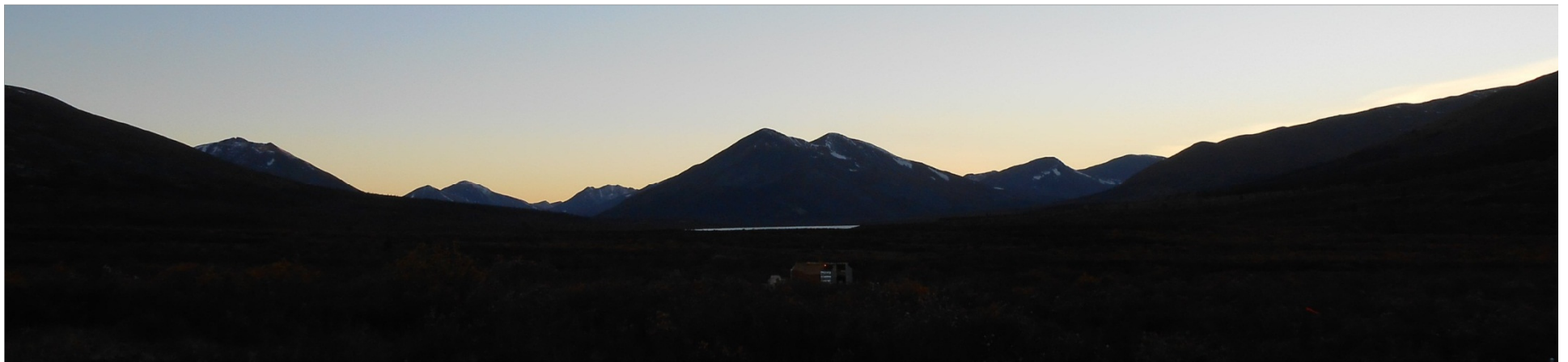
- Generally VMS deposits of the Finlayson Lake District are higher grade compared to the average Bimodal-Felsic VMS Deposits
- GP4F and R15 have distinctly lower copper, silver, gold compared to global VMS Deposits
- R15 (and GP4F) we have not found the copper (Ag, Au) -rich feeder zone yet...



Conclusions



- R15 is a Bimodal-Felsic, Kuroko style volcanic-hosted massive sulphide deposit
- Along strike and adjacent to Teck's GP4F Deposit
- Geologically similar to GP4F Deposit with similar style of mineralization
- Intersected in 4 diamond drill holes drilled by Teck in 2004⁽³⁾
- Intersected in 5 diamond drill holes drilled by Redtail in 2012
- Best intersection is drill hole R12-11:
 - 8.25m of 8.49% Zn, 3.94% Pb, 0.24% Cu, 34.70g/t Ag, 0.061g/t Au
- Open in all directions



Disclaimer



©2011 Redtail Metals Corp. All rights reserved. Unless otherwise noted, "Redtail" and all other marks used in this presentation are trademarks of Redtail Metals Corp. (the "Company"). Any reproduction or dissemination of any feature of this presentation, in whole or in part, or any use of this presentation for any unlawful purposes, is strictly prohibited.

The technical contents of this presentation were reviewed by Gilles Dessureau, MSc., PGeo and a Qualified Person as defined by National Instrument 43-101.

The information provided in this presentation is provided solely for general knowledge purposes. This presentation is not intended to be a comprehensive review of all matters and developments concerning the Company and the Company assumes no responsibility for its completeness, accuracy and currency. Although information used in this presentation is believed to be accurate as at the date hereof, it may not be accurate when read. The Company does not undertake to update any of the information provided in this presentation. For current information please refer to the Company's filings on SEDAR (www.sedar.com) or contact the Company.

THIS PRESENTATION IS PROVIDED "AS IS" WITHOUT ANY EXPRESS OR IMPLIED WARRANTY OF ANY KIND, INCLUDING WARRANTIES OF MERCHANTABILITY, NONINFRINGEMENT OF INTELLECTUAL PROPERTY, OR FITNESS FOR ANY PARTICULAR PURPOSE. IN NO EVENT SHALL THE COMPANY, ITS DIRECTORS, OFFICERS OR EMPLOYEES BE LIABLE FOR ANY DAMAGES WHATSOEVER (INCLUDING, WITHOUT LIMITATION, DAMAGES DUE TO LOSS OF PROFITS OR BUSINESS INTERRUPTION) DUE TO THE READER'S USE OF THIS PRESENTATION.

This presentation is not to be construed as an offer to sell, or a solicitation of an offer to buy securities of the Company. An offer to sell, or a solicitation of an offer to buy securities of the Company can only be made by a broker-dealer registered in all jurisdictions in which such an offer is being made and only if such offer is otherwise made in accordance with all applicable securities laws, regulations, and rules of any kind whatsoever. The information in this presentation is not intended in any way to qualify, modify or supplement any prospectus or other information disclosed under the corporate and securities legislation of any jurisdiction applicable to the Company. No securities commission has in any way passed on any of the information contained in this presentation.

This presentation contains certain statements that may be deemed "forward-looking statements". All statements in this release, other than statements of historical fact, that address future production, reserve potential, exploration drilling, exploitation activities and events or developments that the Company expects to occur, are forward-looking statements. Forward-looking statements are statements that are not historical facts and are generally, but not always, identified by the words "expects", "plans", "anticipates", "believes", "intends", "estimates", "projects", "potential" and similar expressions, or that events or conditions "will", "would", "may", "could" or "should" occur. Information inferred from the interpretation of drilling results and information concerning mineral resource estimates may also be deemed to be forward-looking statements, as it constitutes a prediction of what might be found to be present when and if a project is actually developed. Although the Company believes the expectations expressed in such forward-looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results may differ materially from those in the forward-looking statements. Factors that could cause the actual results to differ materially from those in forward-looking statements include market prices, exploitation and exploration successes, and continued availability of capital and financing, and general economic, market or business conditions. Investors are cautioned that any such statements are not guarantees of future performance and actual results or developments may differ materially from those projected in the forward-looking statements. Forward-looking statements are based on the beliefs, estimates and opinions of the Company's management on the date the statements are made. The Company undertakes no obligation to update these forward-looking statements in the event that management's beliefs, estimates or opinions, or other factors, should change.

THE FOREGOING LIMITATIONS AND DISCLAIMERS APPLY REGARDLESS OF THE CAUSES OR CIRCUMSTANCES GIVING RISE TO THE LOSS, DAMAGE, CLAIM OR LIABILITY, EVEN IF SUCH LOSS, DAMAGE, CLAIM OR LIABILITY IS BASED UPON BREACH OF CONTRACT (INCLUDING, WITHOUT LIMITATION, A CLAIM OF FUNDAMENTAL BREACH OR A BREACH OF A FUNDAMENTAL TERM), TORT (INCLUDING, WITHOUT LIMITATION, NEGLIGENCE) OR STRICT LIABILITY.



- 1) Burgoyne, A.A., 2011. Technical Report and Mineral Resource Estimate for Redtail Metals Corp. Vancouver, BC, on the Marg Volcanogenic Massive Sulphide Deposit. Mayo Mining District, Yukon, Canada.
- 2) Arsenault, G., and MacIntyre, D.G., 2010. Clear Lake Zinc-Lead-Silver Deposit, Yukon. NI 43-101 Technical Report. Prepared by SRK Consulting (Canada) Inc.
- 3) *MacRobbie, P.A., and Holroyd, R.W., 2004. 2004 Summary Report, R-15 Option (KZK Project) Canada, Linecutting, Grid Ground Geophysical Surveys (UTEM/MAG), Diamond Drilling, and Minor Geological Mapping. Exploration Report for Kaska Minerals Corporation and Yukon Territorial Government.*
- 4) *Bradshaw, G.D., 2003, Geology and genesis of the Wolverine polymetallic volcanic rock-hosted massive sulphide (VHMS) deposit, Finlayson Lake district, Yukon, Canada: Unpubl. M.Sc. thesis, The University of British Columbia, 172 p.*



Redtail Metals Corp. | TSX.V:RTZ

11th Floor, 888 Dunsmuir Street
Vancouver, British Columbia
Canada, V6C 3K4

T: 604 648 4653 F: 604 642 0604

E: info@redtailmetals.com

www.redtailmetals.com