

RIU Explorers Conference

25-26 February 2015

STAVELY MINERALS



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STAVELY MINERALS



ASX Code – SVY Share Price - \$0.18 Cash (31/12/14) - \$1.2M Shares on Issue – 80.8M Market Cap - \$14.5M

Excludes Titeline Drilling agreement*

Directors

Bill Plyley
Non-executive Chairman
Chris Cairns
Managing Director
Jennifer Murphy
Technical Director
Peter Ironside
Non-executive Director
Amanda Sparks
Company Secretary



^{*\$2}m share subscription agreement with Titeline Drilling Pty Ltd announced to the ASX on 7 October 2014



OUR STRATEGY

STRATEGY



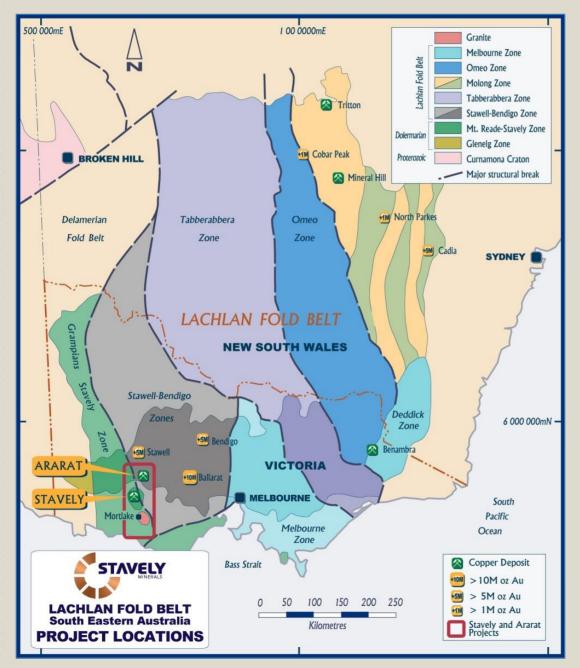
- 1. Acquire copper-gold / base metals projects with quality Mineral Resources with two key attributes:
 - i. The known mineralisation is not sufficient to develop
 - ii. There is excellent exploration upside
- 2. Implement an intensive exploration programme to discover further mineralisation / add to the Mineral Resources
- 3. When the project has sufficient Mineral Resources defined to an appropriate level of confidence, commence scoping / feasibility studies towards demonstrating the economic case for development
- 4. Develop the asset



PROJECTS

PROJECT LOCATION

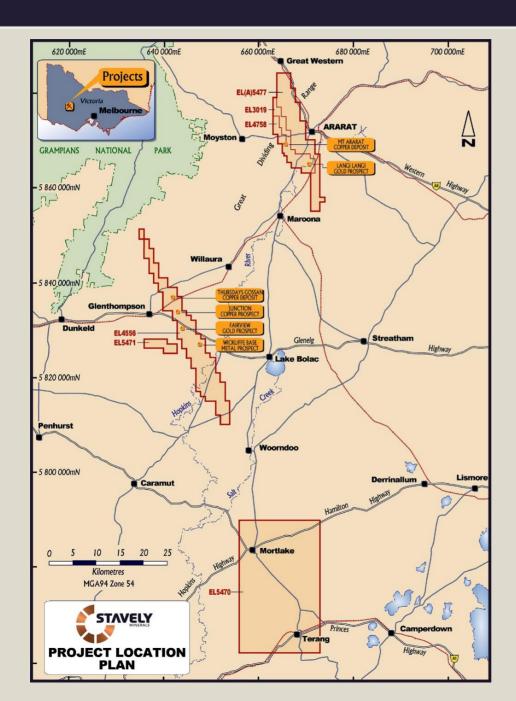




The Mount Stavely
Volcanic Complex is
considered a northern
extension of the Mt
Read Volcanics in
Tasmania

PROJECT LOCATION





Total area owned and applied for tenure:

770 square kilometres

MINERAL RESOURCES¹



At the Ararat Project, hosted in Besshi-style VMS:

 Inferred Mineral Resources of 1.2Mt at 2.0% copper, 0.5 g/t gold, 0.4% zinc and 6 g/t silver for 30kt of contained copper

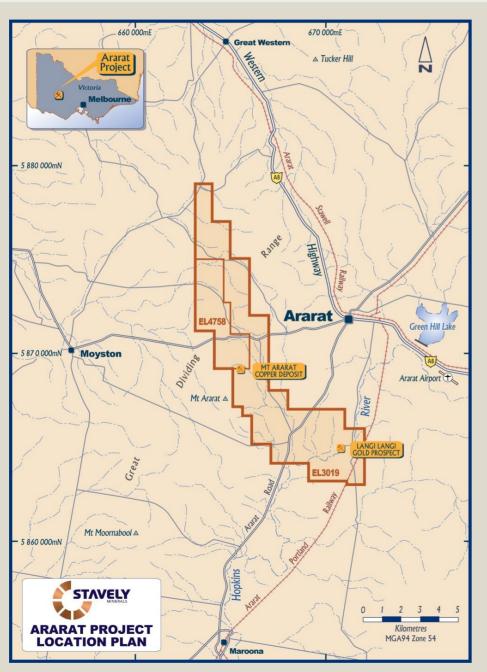
At the Stavely Project hosted in a secondary chalcocite enriched blanket:

 Inferred Mineral Resources of 28Mt at 0.4% copper for 110kt of contained copper

¹ reported in compliance with JORC 2012, see Stavely Minerals Prospectus dated 17 March 2014 and available from www.stavely.com.au







Hosts the: Mt Ararat Besshi-style copper-gold VMS

and the

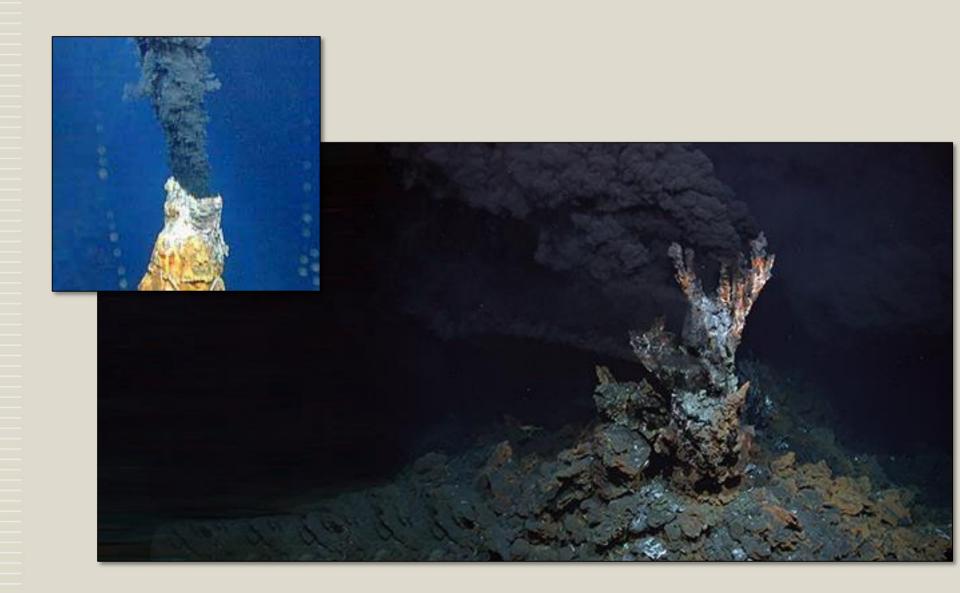
Langi Logan - Stawell Gold Mine look-alike target



MOUNT ARARAT VMS

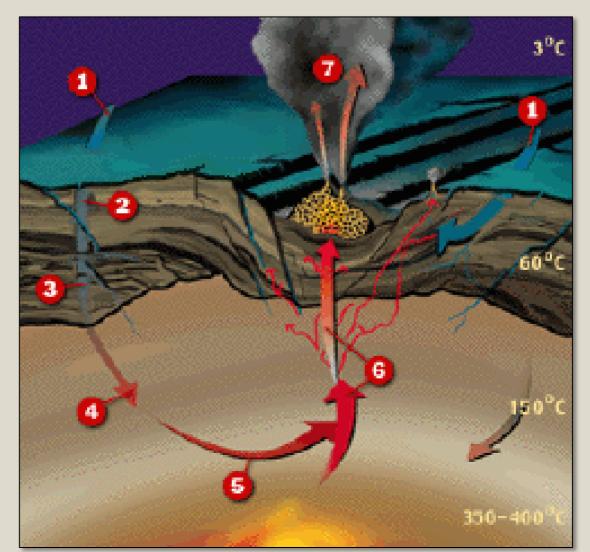


Mt Ararat Besshi-style copper-gold VMS is an ancient seafloor 'black smoker'



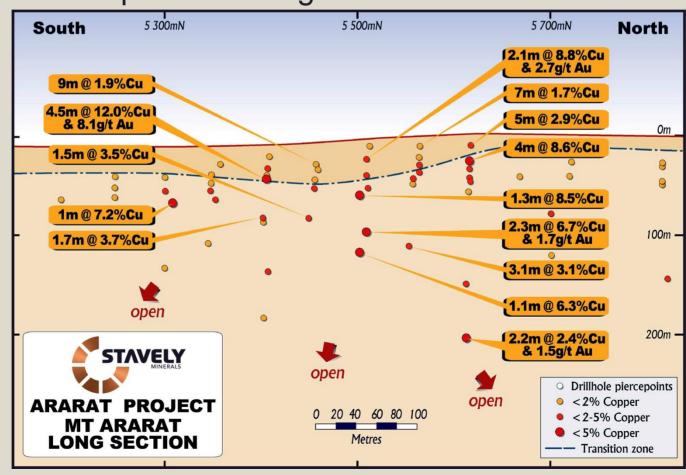


Mt Ararat Besshi-style copper-gold VMS is an ancient seafloor 'black smoker' – they tend to occur in clusters of typically 6-8 deposits



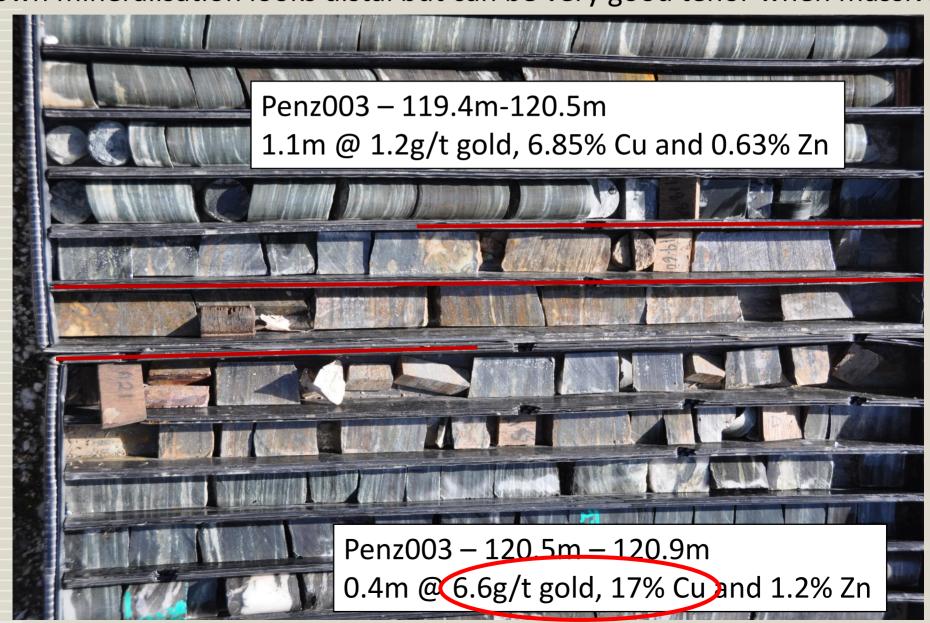


- Mt Ararat Besshi-style VMS Inferred Mineral Resource of 1.2Mt at 2.0% copper, 0.5g/t gold, 0.4% zinc and 6g/t silver
- The Degrussa deposit is considered a Besshi-style VMS
- Open at depth and along strike



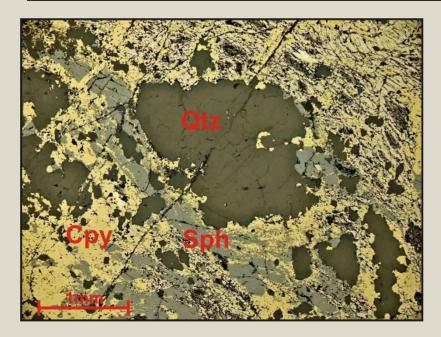


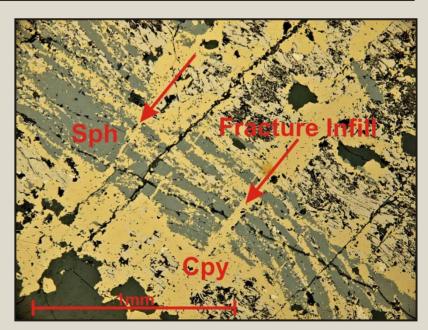
Known mineralisation looks distal but can be very good tenor when massive



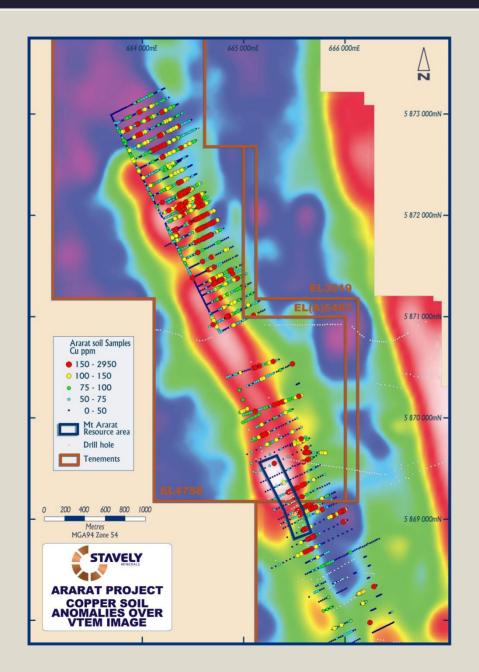


- Known mineralisation expressed as fine sulphide laminations interlayered with pelitic sediments – quiescent distal interpretation
- More massive zones can have exceptional grades:
 - ✓ MA28 4.45m at 8.1g/t gold and 12% copper from 32.25m
- The prize is the thicker massive sulphide 'outflow' zone









Mt Ararat Mineral Resource is over 350m strike extent at the southern end of a 4 kilometre long airborne VTEM conductor and coincident soil copper-zinc anomalism (gold not analysed).

Ground EM confirms significant undrilled extensions to the north of the existing resource with noted gossans and historic copper workings.



Recent RC drilling results¹ from northern extensions to the Mt Ararat Mineral Resource:

- > 5m at 2.10% copper, 0.56 g/t gold, 0.48% zinc and 9 g/t silver, including
 - 2m at 3.37% copper, 0.73 g/t gold, 0.47% zinc and 14 g/t silver
- > 3m at 2.64% copper, 0.17 g/t gold, 0.31% zinc and 3 g/t silver
- ➤ 1m at 5.89% copper, 0.55 g/t gold, 2.31% zinc and 17 g/t silver

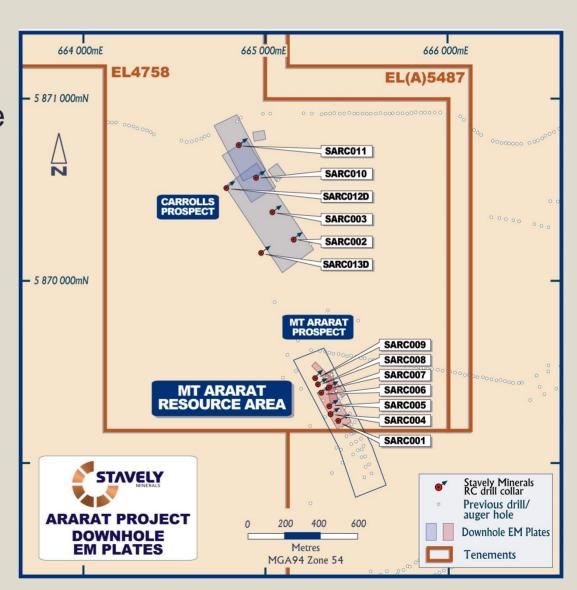
At the Carroll's prospect, RC drilling and diamond tails set the platform for DHEM surveying

¹ see ASX announcement dated 10 September 2014 and available from www.stavely.com.au



Mt Ararat VMS DHEM conductor plates

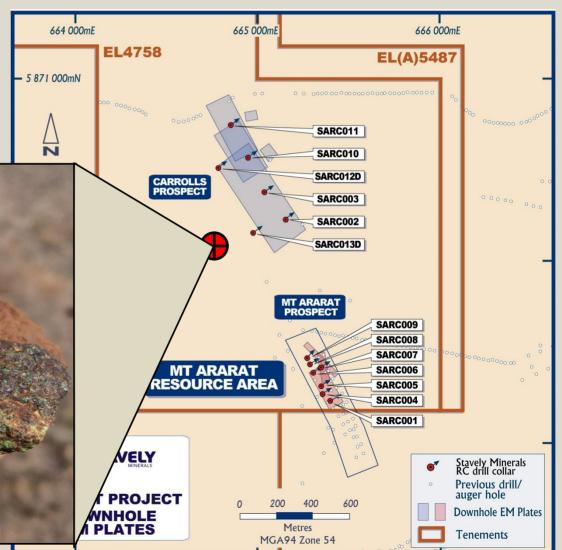
- Mt Ararat has additional conductors at the north end of the deposit (red).
- Carroll's prospect (blue) has weaker DHEM conductors



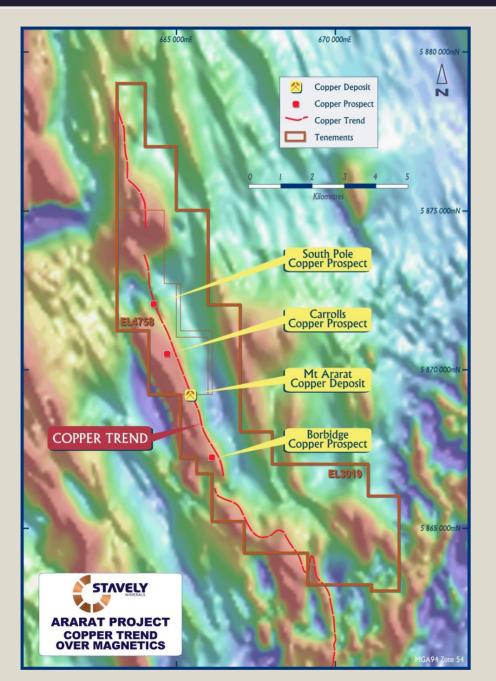


Mt Ararat VMS

 Multiple mineralised horizons confirmed with Carroll's Copper prospect rediscovered

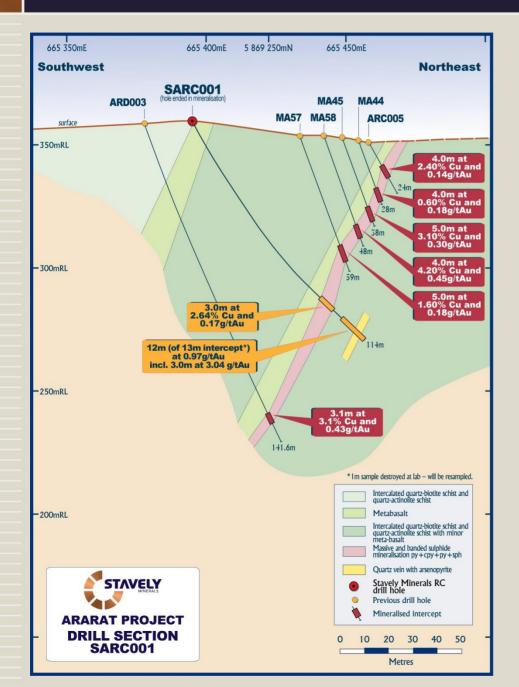






- Prospective VMS coppergold horizon extends over 15 kilometres within Stavely Minerals tenements.
- Very little exploration under shallow cover.





Stawell-style gold potential

Unexpectedly, drill hole SARC001 also intersected 12m @ 0.97 g/t gold (to EoH) within a broader 13m interval*, including a significant higher grade zone of:

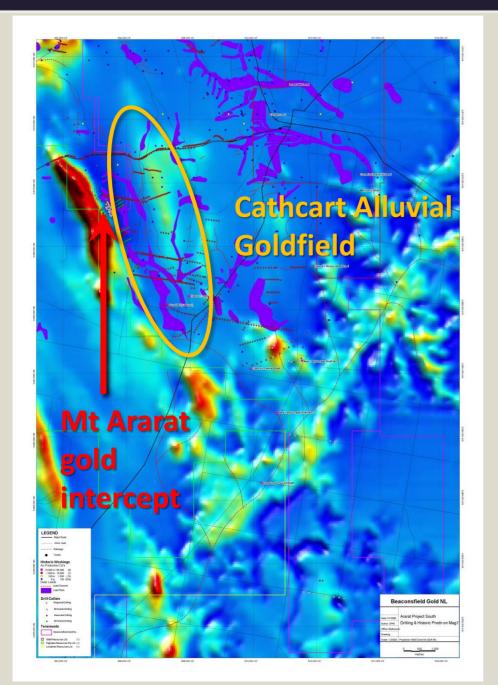
3m at 3.04 g/t gold

*one x 1 metre sample was destroyed at the lab and is being re-sampled to allow the grade of the full 13m interval to be re-quoted. EoH = end of hole

¹ see ASX announcement dated 10 September 2014 and available from www.stavely.com.au

ARARAT GOLDFIELD





Stawell-style gold potential

- Produced +600,000oz from alluvials and deep leads
- No hardrock source identified.

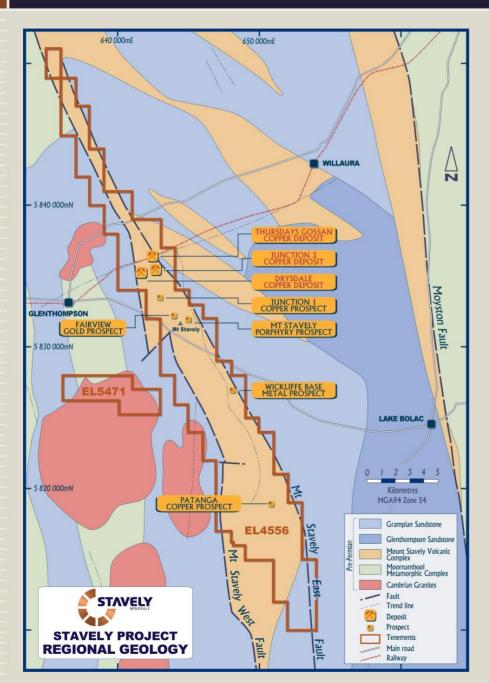




Why look for porphyries in western Victoria?

- Porphyries are the major deposit type for global copper production
- Porphyries are large metal systems with a well understood alteration zonation typically an order of magnitude larger than the deposit itself – ie. The 'hydrothermal system' has a large footprint that has a recognisable zonation from cooler outer alteration to hotter inner alteration
- There are several types of porphyries copper, coppermolybdenum, copper-gold, molybdenum etc
- Many are operated as large open pits but a special class are attractive as underground 'block cave' operations – those deposits are alkalic copper-gold porphyries typically with higher copper and/or gold grades and this is what we are looking for!



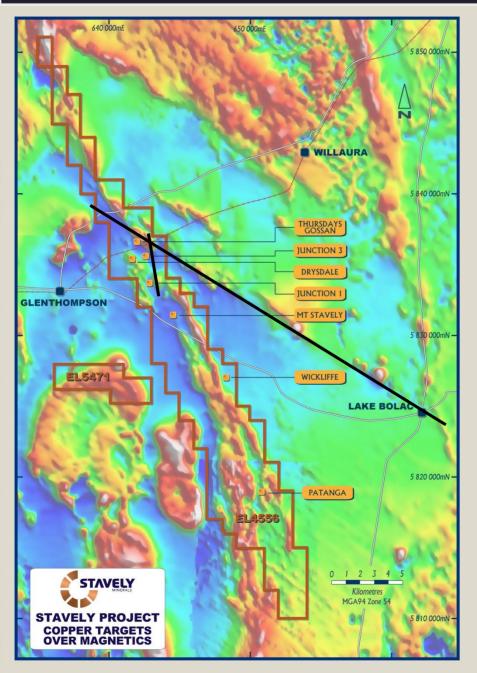


- Thursday's Gossan
 chalcocite enriched blanket
 Inferred Mineral Resource
 of 28Mt at 0.4% copper
- Thursday's Gossan porphyry

containing 107kt copper

- Junction porphyry
- Newly interpreted Mt Stavely porphyry
- Fairview Gold prospect
- Wickliffe VMS prospect
- Patanga porphyry prospect





- Mt Stavely Volcanic
 Complex considered the
 northern extension of the Mt
 Read Volcanics in Tasmania
 demonstrated by Tony
 Crawford.
- MRV hosts the Mount Lyell, Rosebery, and Henty copper-gold deposits.
- In the Thursday's Gossan area a very major intersection of N-S and NW oriented structures.

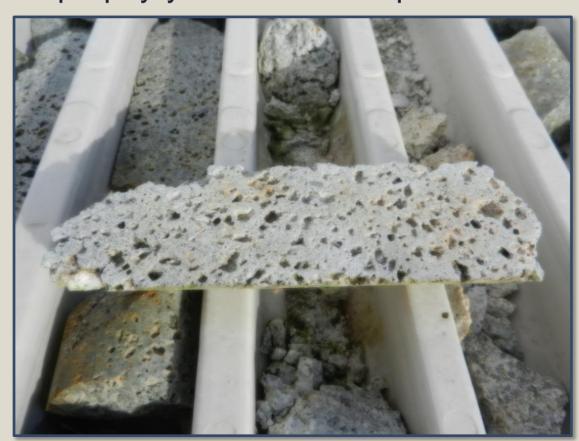




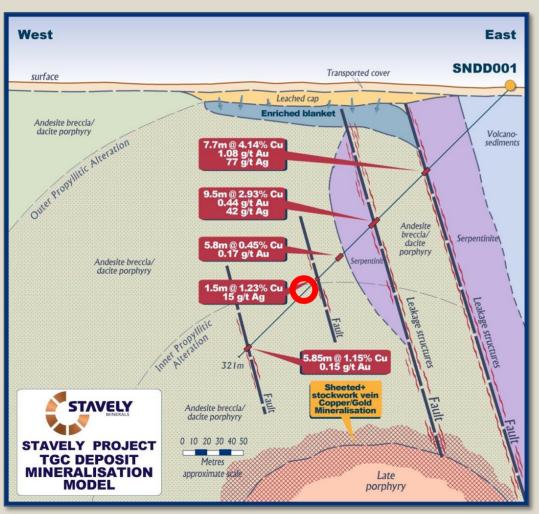
Thursday's Gossan chalcocite blanket (red) and location of porphyry intrusion at depth (blue) controlled by long-lived structures – regional structural controls expressed at local scale.



- Stavely bought these projects primarily for the exploration upside.
- Stavely's premise was that previous explorers had failed to recognise the high-level of exposure
 - ie. The porphyry was down deeper than existing drilling.







Significant drill intercepts into 'leakage' structures:

- 'D' veins in the porphyry terminology of Gustafson and Hunt, 1975
- 7.7 metres at 4.14%
 copper, 1.08 g/t gold and
 77g/t silver
- 9.5 metres at 2.93%
 copper, 0.44g/t gold and
 42 g/t silver

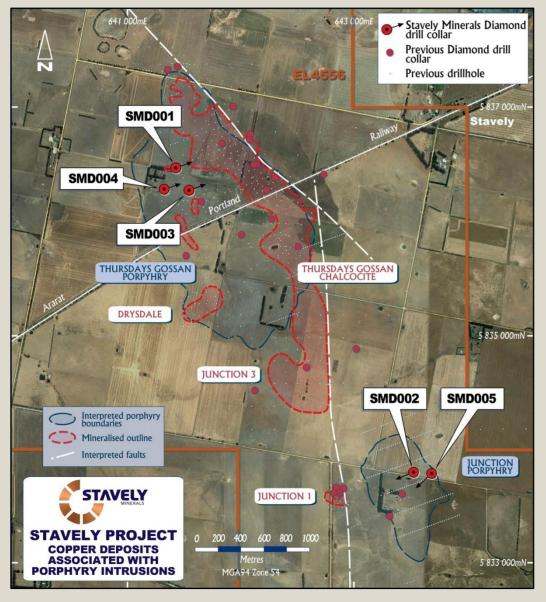


But what evidence that the Stavely Volcanic Belt hosts alkalic copper-gold porphyries?

- Zones of pervasive hematite alteration
- Strongly negative δ34 sulphur isotope values
- Metal ratios gold and silver rich
 - 5m @ 1.4% copper, 0.25g/t gold and 11 g/t silver from the Junction deposit
 - D-veins from Thursday's Gossan
 - 7.7 metres at 4.14% copper, 1.08 g/t gold and 77g/t silver
 - 9.5 metres at 2.93% copper, 0.44g/t gold and 42 g/t silver
- Geochemical similarity with alkalic 'switch' in the Mt Read Volcanics – Tony Crawford



2014 deep drilling programme



Three deep diamond drill holes at Thursday's Gossan and two deep diamond drill holes at Junction.







First drill holes into the Thursday's Gossan prospect intercepted broad intervals of low-level 'wall rock' copper mineralisation in phyllic over propylitic alteration:

- 82.3m at 0.12% copper
- 45.9m at 0.19% copper, and
- 196m at 0.13% copper

First drill hole hole into the Junction prospect also intercepted broad intervals of low-level copper mineralisation in phyllic over propylitic alteration:

- 62m at 0.17% copper
- 44.8m at 0.15% copper, and

In potassic alteration:

5m at 1.4% copper, 0.25g/t gold and 11g/t silver

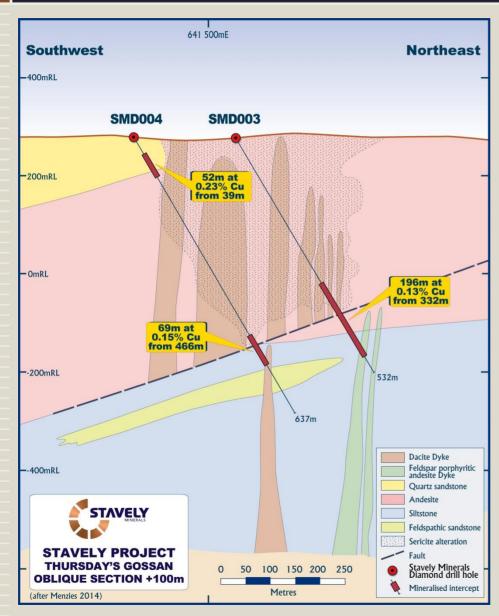
see ASX announcements dated 28 August 2014 and 29 September 2014 and available from www.stavely.com.au





- ✓ Drill hole SMD004 at Thursday's Gossan was providing an excellent 'vector' towards the porphyry core at depth to the south but this would be disrupted by the low-angle structure at ~420m depth
- ✓ We were very close, now to use every piece of evidence we can get to indicate the direction of offset on the structure and then pursue the porphyry beneath the structure





- ✓ Drilling intercepted lowangle structure at ~400m depth
- Alteration and sulphides were indicating close proximity to target potassic core
- ✓ Challenge can be overcome with good geology we have the tools we need



Results to date

Thursday's Gossan

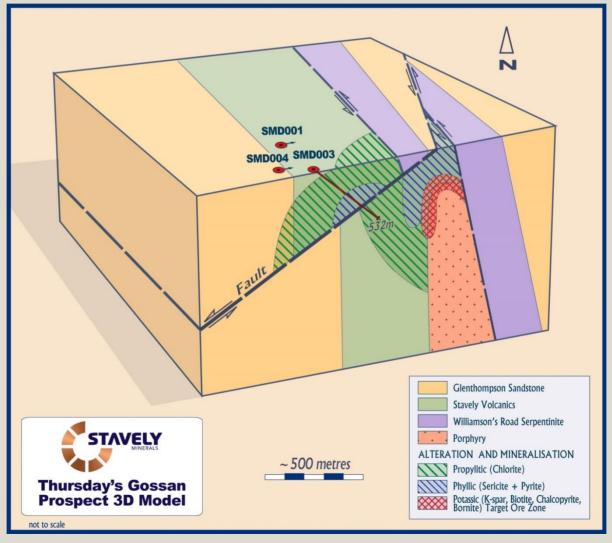
- ✓ Very positive results from drilling the IP chargeability anomaly – increasingly intense alteration, very 'busy' drill core, low-grade copper mineralisation in peripheral alteration
- ✓ Intercepted a low-angle structure at ~400-480m depth now using alteration zonation, geochemistry, marker units, 3D structural interpretation and geophysics to vector beneath the structure

Junction

✓ Short interval of good grades intercepted, need much bigger intervals. Considering geophysics in this area given the success of IP at Thursday's Gossan



Stavely has become the first company to recognise the influence of a major low-angle structure at Thursday's Gossan. We believe the target zone to have been offset into an untested position to the north / east.



see ASX announcements dated 27 January 2015 and available from www.stavely.com.au



Stavely has compelling exploration potential

Confirmed porphyry targets with:

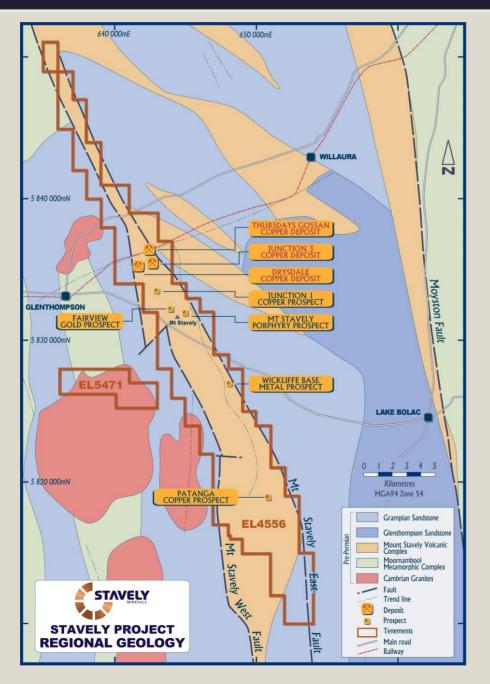
- ✓ Well-developed low-grade copper mineralisation in peripheral phyllic and propylitic alteration
- ✓ IP chargeability anomalies correlate well with phyllic alteration
- ✓ Alteration mineralogy indicating high-level of exposure in porphyry system
- ✓ Sulphur isotope values consistent with magmatic source importantly, sparse data indicates Thursday's Gossan IP chargeability anomaly could be close to mineralised 'core'
- ✓ Haematite alteration a possible indicator of a fertile copper-gold 'alkalic' system
- Attractive metal ratios



Main 'take-away' messages:

- Thursday's Gossan demonstrates the attributes of an alkalic porphyry copper-gold system
- We are the first to recognise the impact of a major lowangle structure
- ➤ We believe the 'core' of the porphyry which we expect to be much better mineralised than what has been seen to date to have been offset to the north / east
- This would bring the target zone closer to surface and into an area very lightly explored
- The potassic altered 'core' of this system has yet to be seen, and should be well mineralised given the huge metal budget in the peripheral alteration styles
- We are in the hunt and closing in





Other targets:

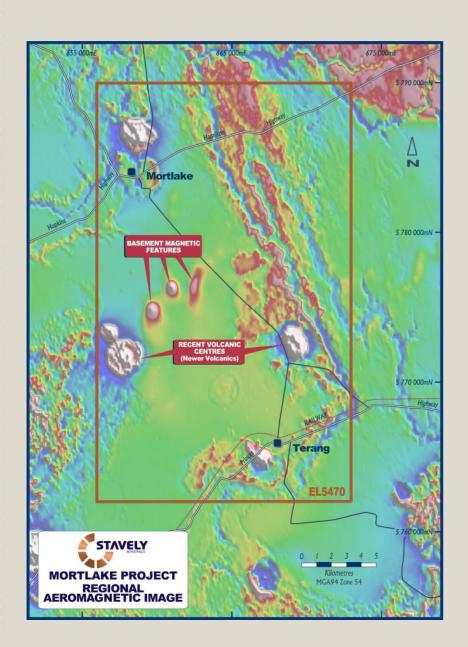
- Patanga porphyry target –
 drill intercept of 10 metres
 at 0.32% copper and 0.4
 g/t gold
- Wickliffe VMS target drill intercept of 3.15 metres at 2.27 g/t gold, 4.9% zinc, 0.2% copper and 7 g/t silver



MORTLAKE PROJECT

MORTLAKE PROJECT





Extension of the Stavely Volcanics

- Southern extension of the Stavely Volcanics under shallow basalt cover
- Unexplained and untested basement magnetic features
- IP surveys to commence in early March

WORK PROGRAMMES



Work programme for the Ararat Project

- At Mt Ararat, additional surface geochemistry and geophysics to identify additional copper—gold mineralised horizons and follow-up targeting of the Stawell-style gold intercept
- Soil geochemistry over the 15 km copper-gold VMS prospective horizon
- Follow-up of other gold targets in the region

Work programme for the Stavely Project

- At Thursday's Gossan, extend IP survey to the north and east in conjunction with surface mapping and geochemistry
- In the region, follow-up of other gold and copper-gold opportunities

Work programme for the Mortlake Project

IP surveys over the 3 unexplained magnetic features

STAVELY MINERALS



Thank You

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