



Unravelling the Gordian Knot at Thursday's Gossan

Mines and Wines Conference 2019

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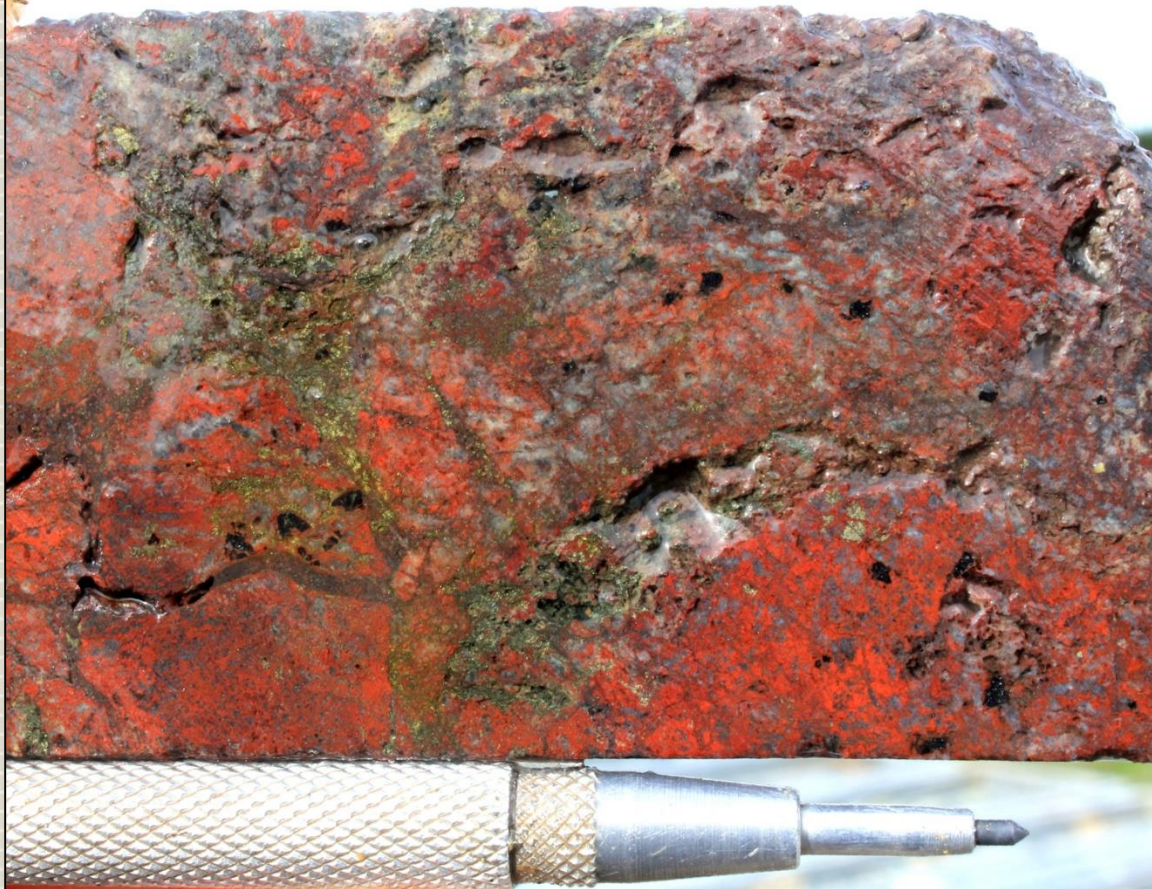
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The Evolution of Thinking: Hypothesise, Drill, Observe, Adjust

THURSDAY'S GOSSAN



**What clues
brought us into
the Stavely
project?**

**SNDD001 – 95m
Hematite +
chalcopyrite =
oxidised fluid**

THURSDAY'S GOSSAN



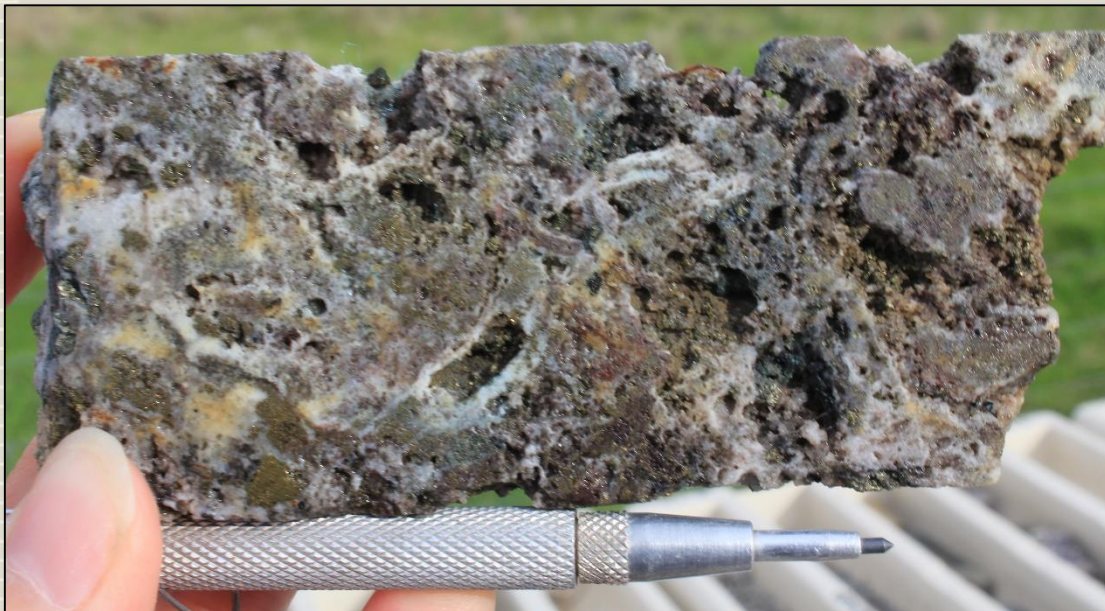
What clues brought us into the Stavely project?

SNDD001 – 95m

**Indications of a strongly acidic fluid
= higher up in the porphyry / epithermal system
= porphyry preserved**



THURSDAY'S GOSSAN

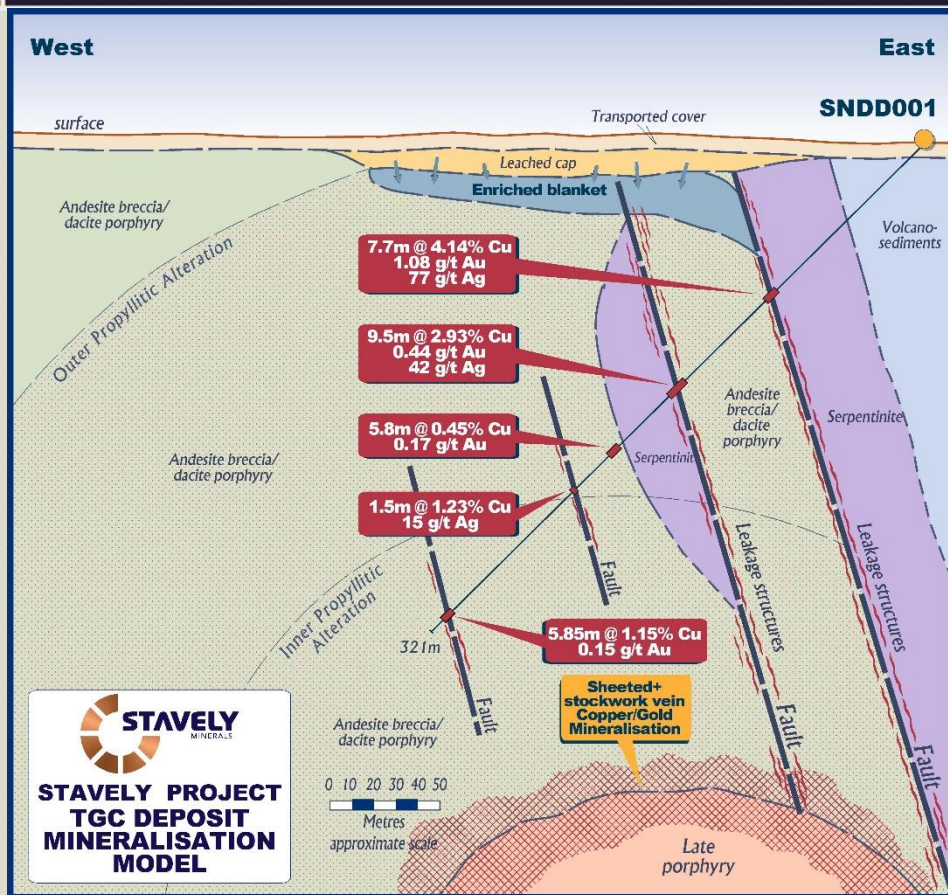


What clues brought us into the Stavely project?

SNDD001 – 156m

**Indications of a strongly acidic fluid
= higher up in the porphyry / epithermal system
= porphyry preserved**

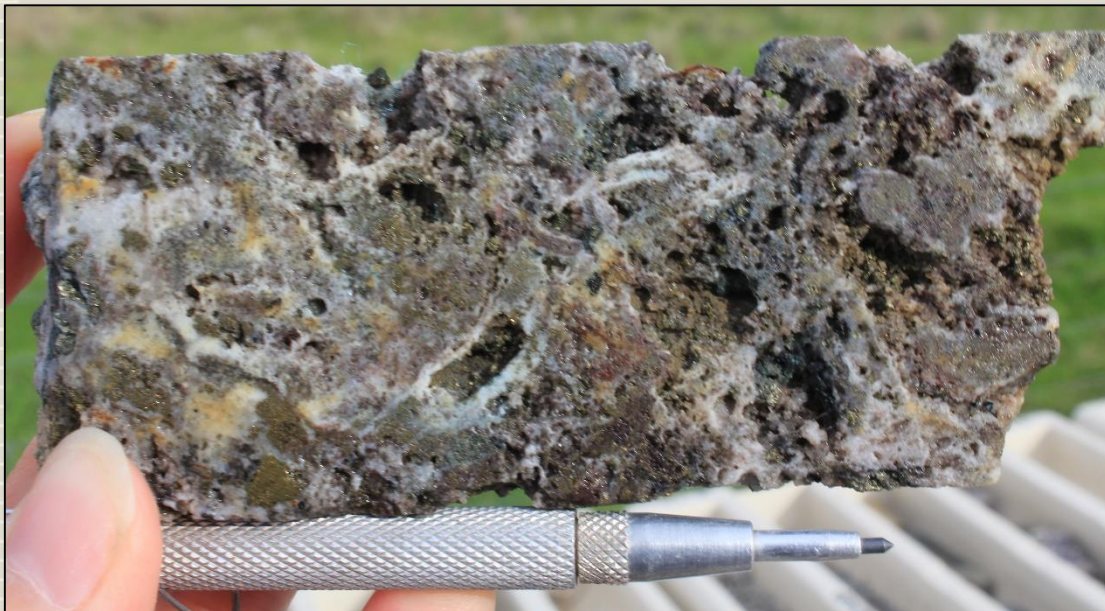
THURSDAY'S GOSSAN



What clues brought us into the Stavely project?
This graphic is from our prospectus...

SNDD001 – from 94.7m

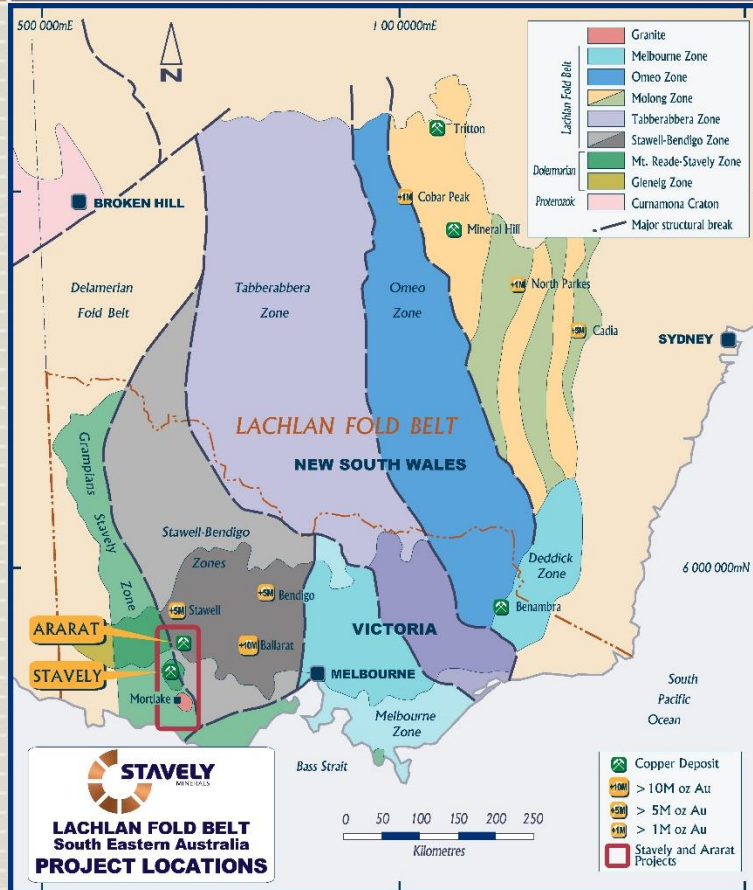
- 7.7m at 4.14% copper
1.08g/t gold
77g/t silver
- from 154.6m
- 9.5m at 2.93% copper
0.44g/t gold
42g/t silver



What clues brought us into the Stavely project?

1. **Copper-gold-silver mineralisation**
2. **Alteration assemblage said 'oxidised'**
3. **Vuggy silica said higher up in system**

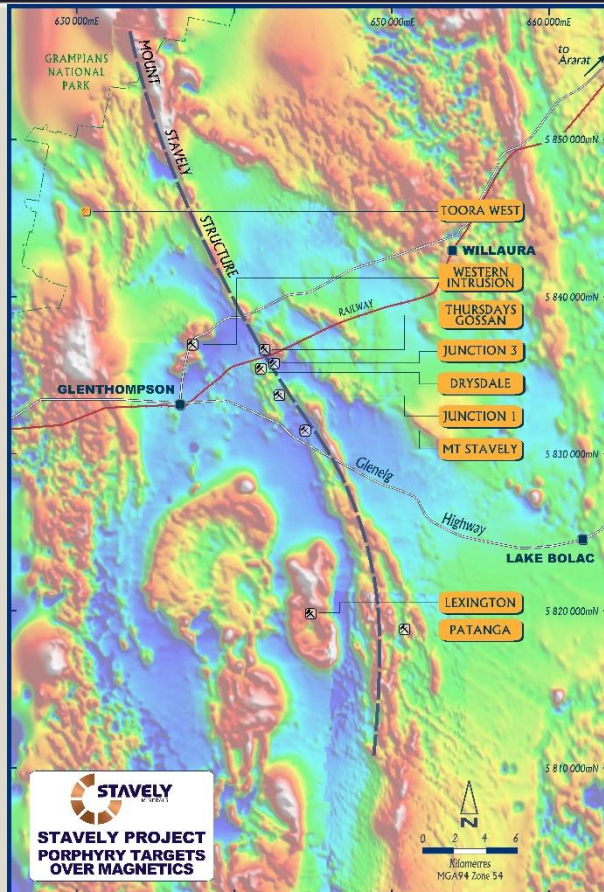
STAVELY VOLCANIC BELT



Located in the Grampians Stavely Zone

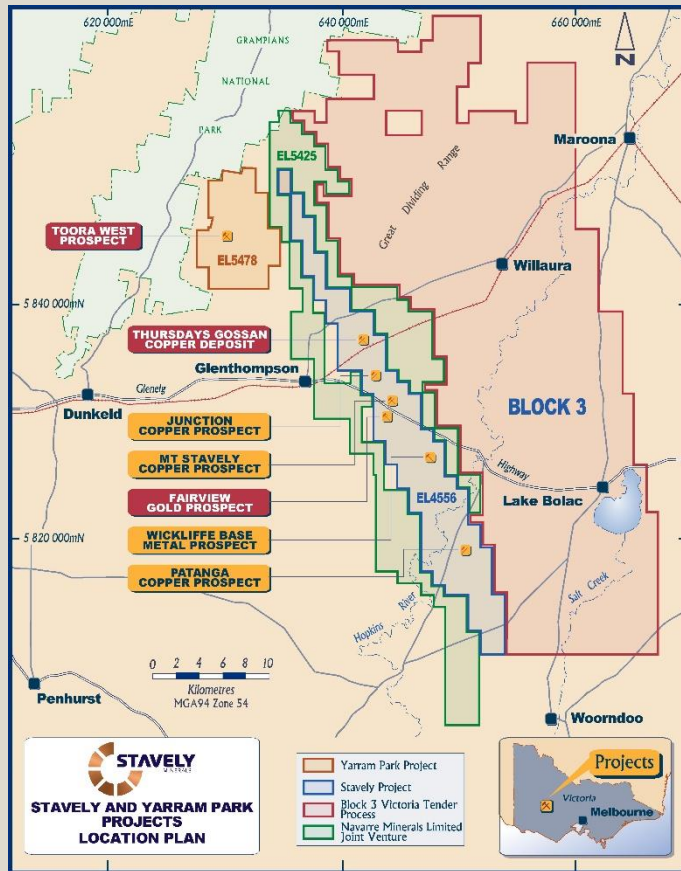
Host sequence includes (probable) Late-Proterozoic serpentinitised ultramafic and Late-Cambrian turbidites, tuffs, andesitic flows (some hyaloclastite) and dolerite, granodiorite, tonalite, diorite and dacite intrusions

STAVELY VOLCANIC BELT



The Stavelly Volcanic Belt is exposed or under shallow cover for about 30km south of the Grampians

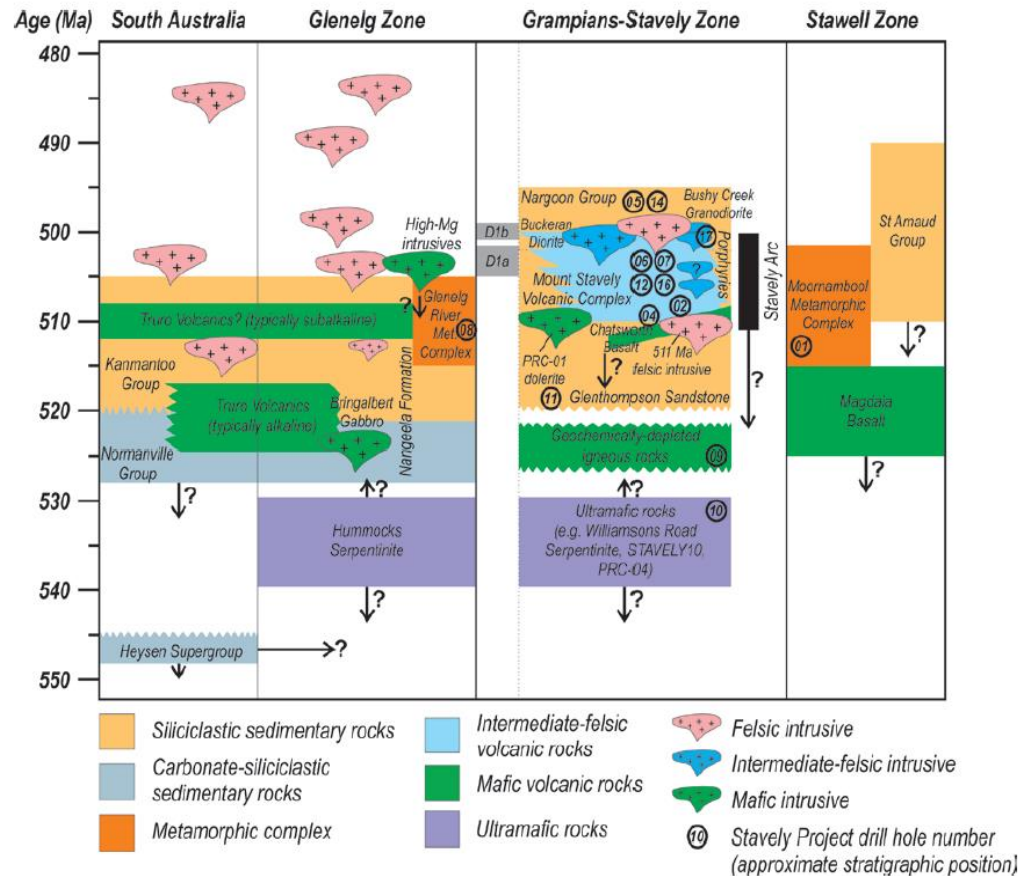
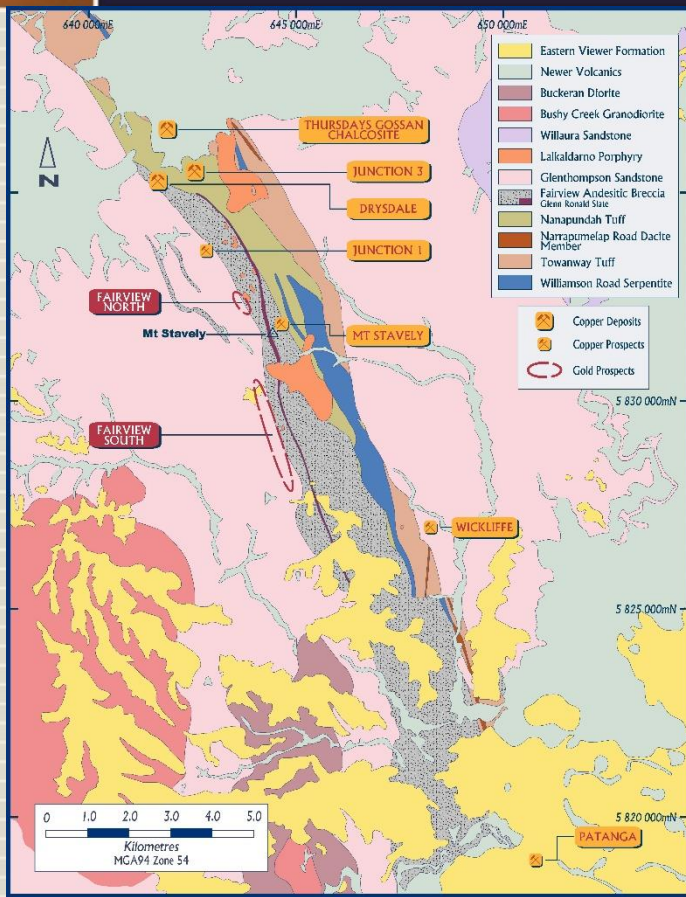
STAVELY VOLCANIC BELT



Stavely has the largest and most strategic tenement holding in the belt

- **Thursday's Gossan porphyry**
- Toora West porphyry prospect
- Junction porphyry
- Mount Stavely porphyry
- Fairview Gold prospect
- Wickliffe VMS prospect
- Patanga copper prospect

STAVELY VOLCANIC BELT



THURSDAY'S GOSSAN PORPHYRY

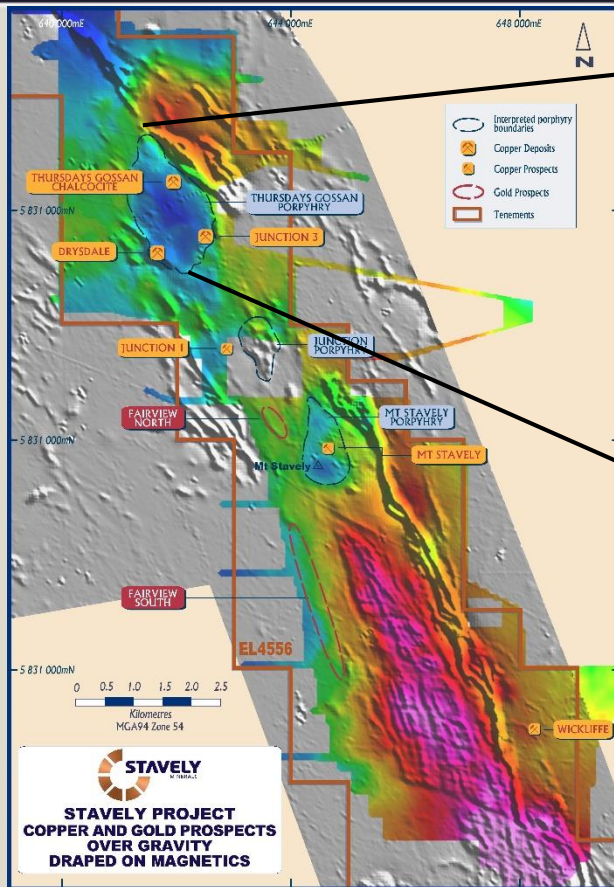


Thursday's Gossan Chalcocite Blanket

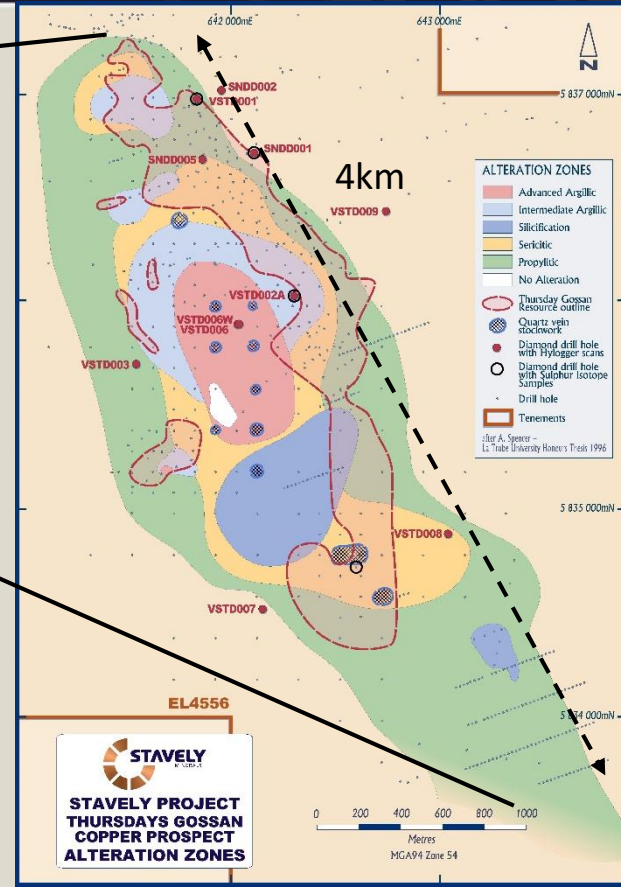
Inferred Mineral Resources
of **28Mt at 0.4% copper¹** for
110kt of contained copper

¹ reported in compliance with JORC 2012, see ASX announcement 8 September 2015, subsequent Annual Reports and available from www.stavely.com.au

THURSDAY'S GOSSAN PORPHYRY



After Spencer,
1996



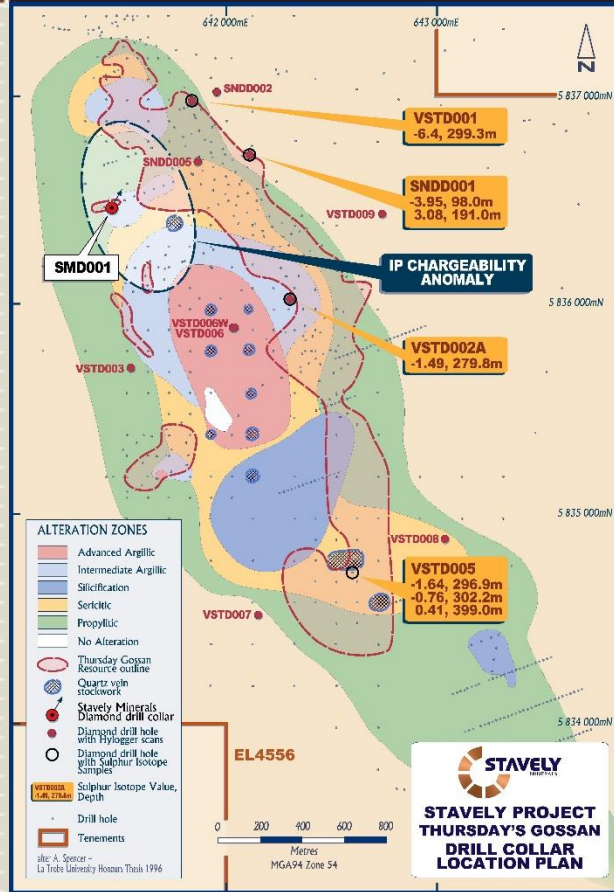
THURSDAY'S GOSSAN PORPHYRY



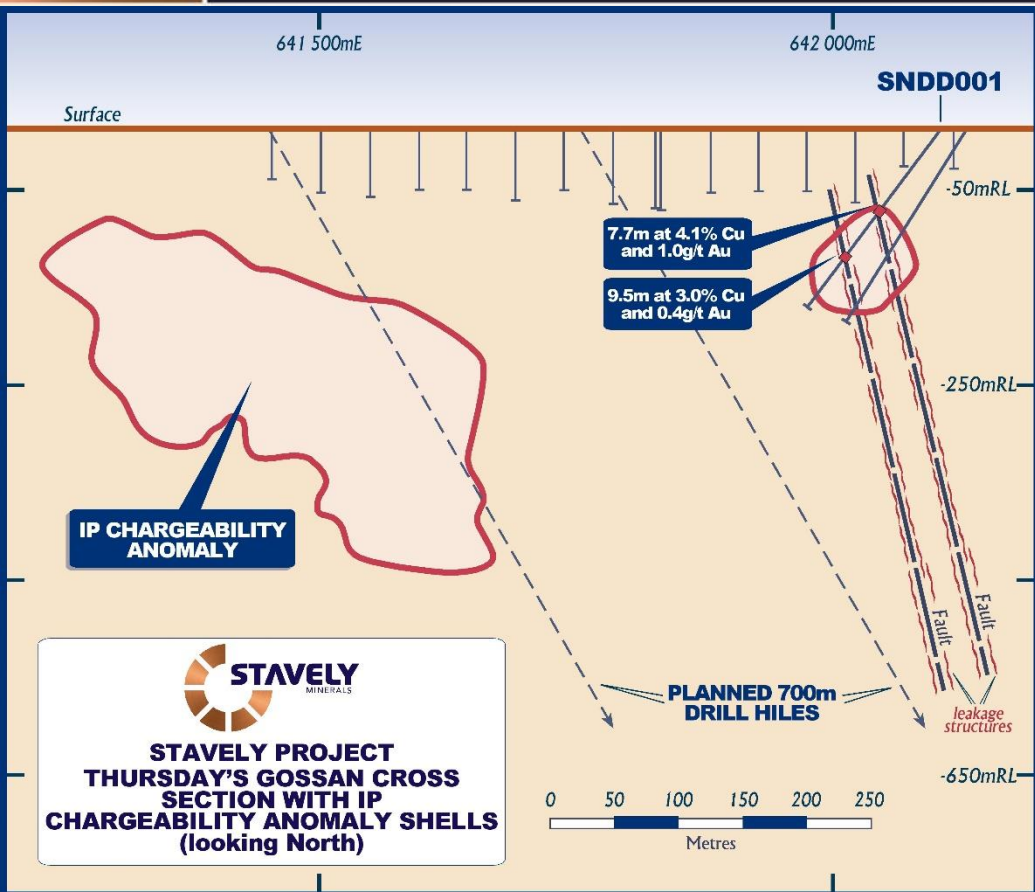
Pre-IPO Induced Polarisation Survey

Identified a +25mV/V chargeability anomaly in the north-central portion of the prospect with no previous drilling >80m depth.

Designed 3x deep diamond drill holes to 600m to test.



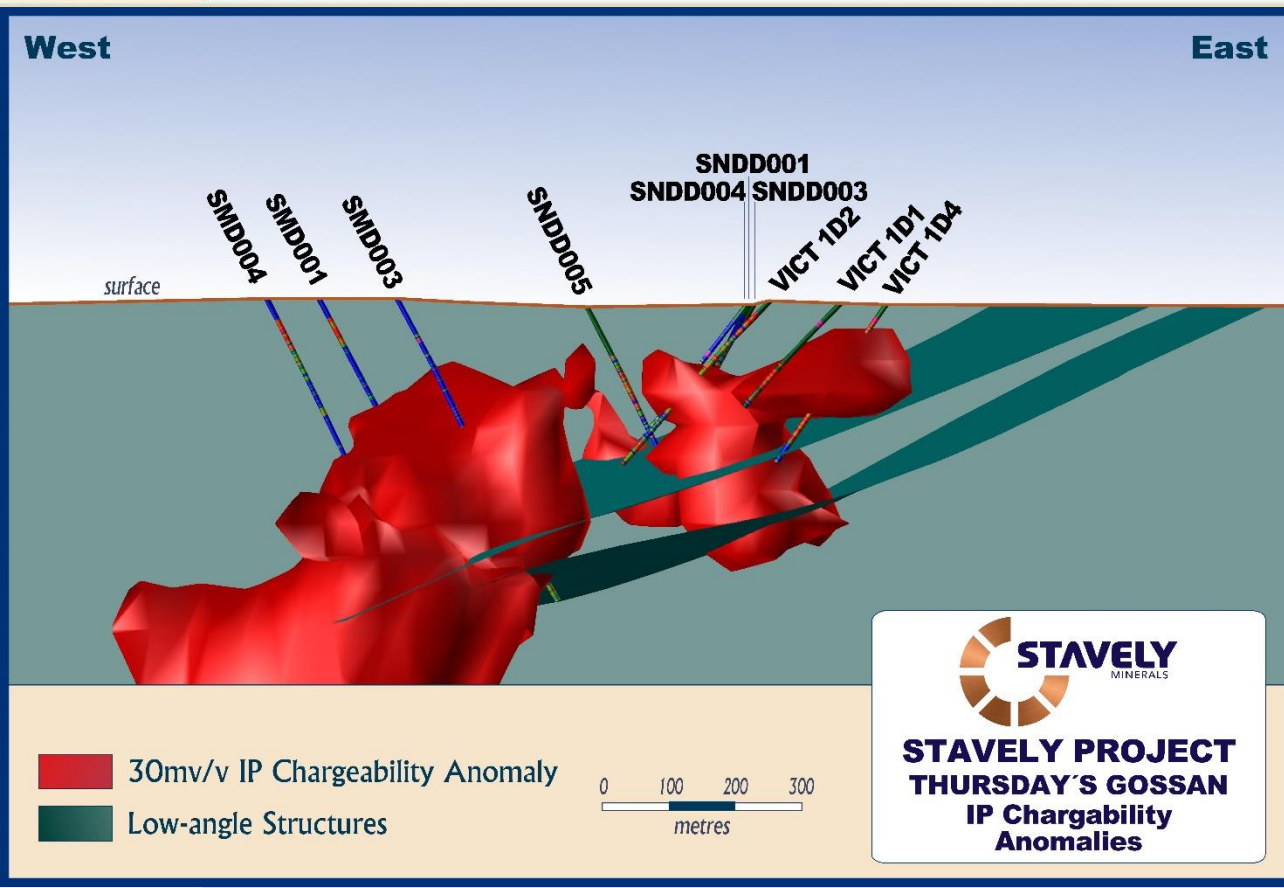
THURSDAY'S GOSSAN PORPHYRY



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THURSDAY'S GOSSAN PORPHYRY



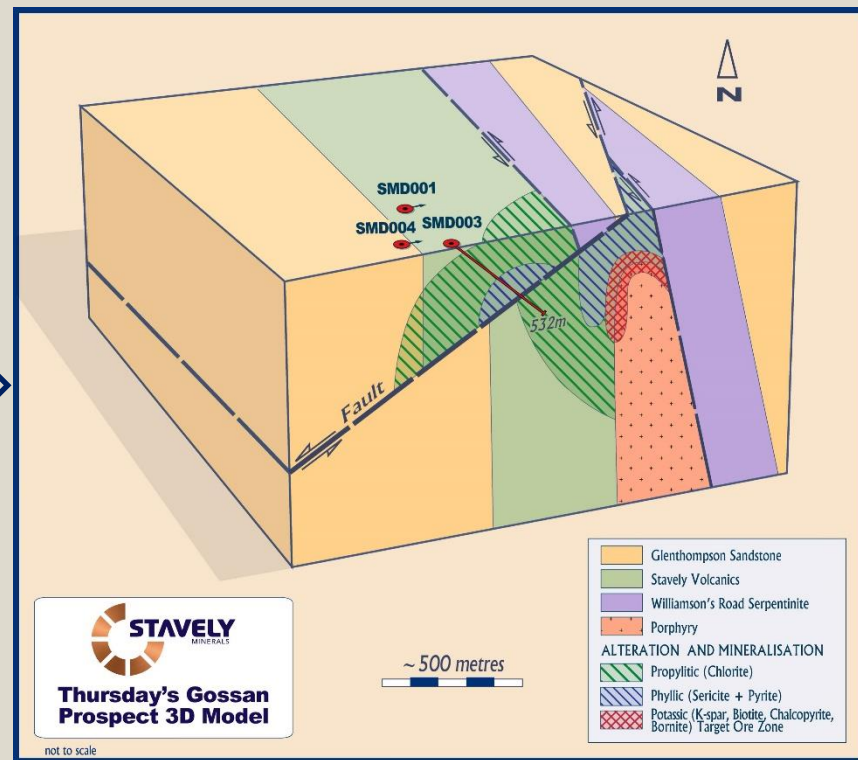
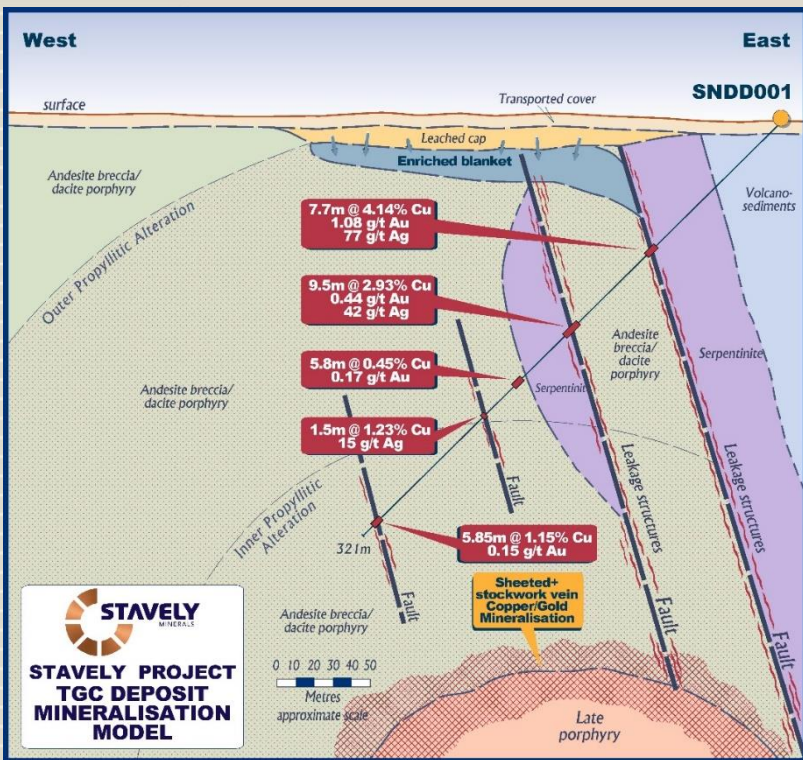
First-pass Drilling

All 3 initial drill holes intercepted phyllic alteration at expected depths. The plan was to drill through this into the potassic zone. Hit a low-angle structure instead.

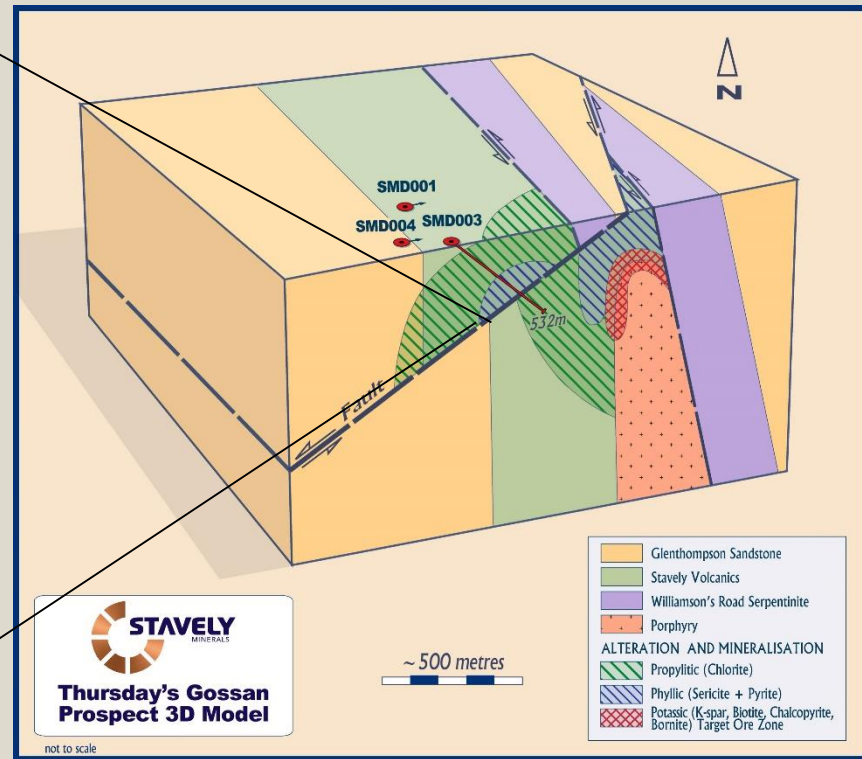


STAVELY PROJECT
THURSDAY'S GOSSAN
IP Chargeability
Anomalies

THURSDAY'S GOSSAN PORPHYRY



THURSDAY'S GOSSAN PORPHYRY

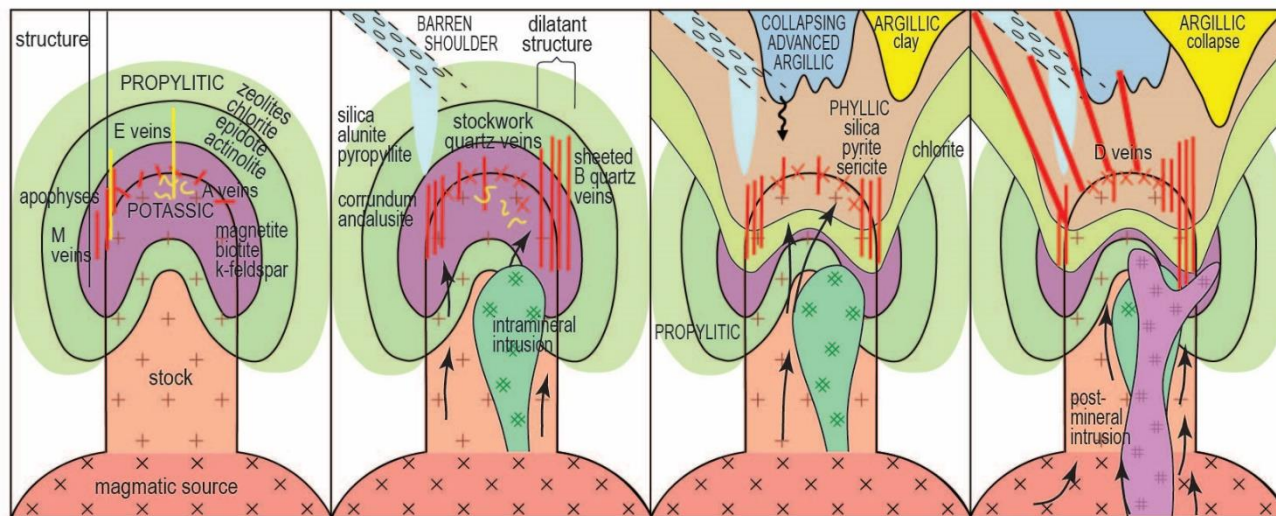


WHAT ARE 'D' VEINS?

STAGED PORPHYRY Cu-Au EVOLUTION

EARLY

LATE



Intrusion emplacement and heat transfer with prograde alteration. E veins.

Initiation of A & M quartz vein formation and early mineralization.

B quartz vein formation.

Exsolution of magmatic volatiles and formation of barren shoulder.

Cooling and collapsing of retrograde phyllic and argillic alteration and overprinting collapsing advanced argillic alteration..
Local retrograde alteration selvages to B grades.

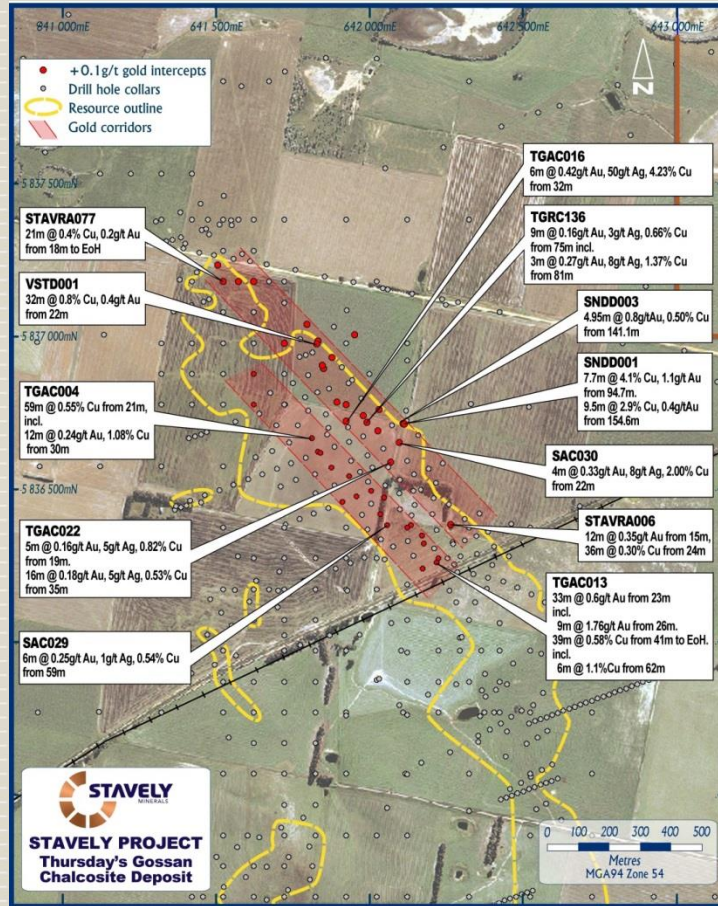
Continued retrograde collapse. D vein mineralization, & post-mineral features.

'D' veins are late-stage sulphide-rich veins with characteristic sericite alteration selvages.

They should be a 'yellow brick road' down to the source porphyry.

After Corbett, 2012

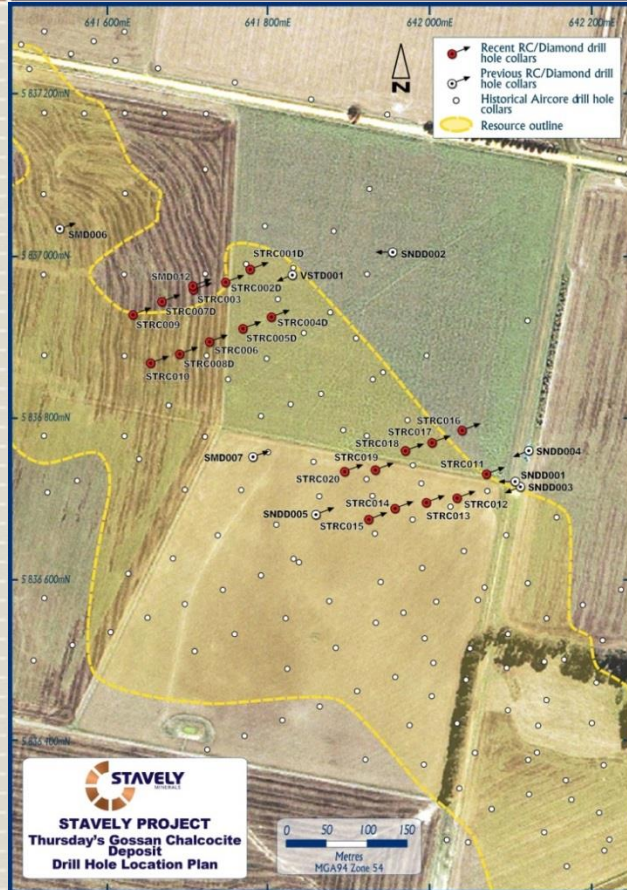
THURSDAY'S GOSSAN PORPHYRY



Thursday's Gossan Chalcocite
Blanket not formed on primary
low-grade porphyry copper
mineralisation

Two parallel zones of near-surface high-grade copper mineralisation with associated silver and gold....
These zones correspond to the near-surface expression of sulphide-rich lode-style veins approaching surface

THURSDAY'S GOSSAN PORPHYRY



- Completed 20 x drill hole RC drilling programme to target these high-tenor copper, silver and gold zones
- ✓ Potential for material impact on Mineral Resources update given **NO** silver and gold ever estimated within the Mineral Resource
 - ✓ Help us understand where the gold and silver are coming from

see ASX announcements on 03/07/2017, 23/08/2017 and 05/09/2017 and available from www.stavely.com.au

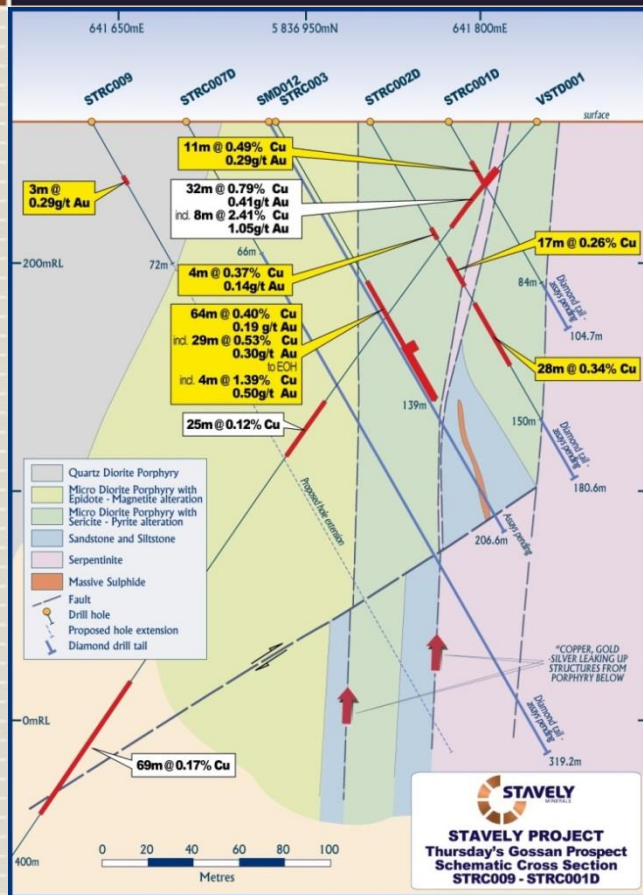
THURSDAY'S GOSSAN PORPHYRY



Thursday's Gossan RC drilling

- 24 metres at 0.64% copper and 1.2 g/t gold including:
 - 14 metres at 0.82% copper and 1.99 g/t gold including
 - 1 metre at 0.84% copper and 22.2 g/t gold
- 29 metres at 0.53% copper and 0.30 g/t gold to end of hole (EoH), including
 - 4 metres at 1.39% copper, 0.5 g/t gold and 55 g/t silver
- 25 metres at 0.52% copper and 0.37 g/t gold to EoH
- 3 metres at 4.14% copper, 0.36 g/t gold and 59 g/t silver
- 43 metres at 0.55% copper and 0.11 g/t gold
- 28 metres at 0.59% copper and 0.19 g/t gold
- 8 metres at 0.74% copper and 0.17 g/t gold
- 25 metres at 0.30% copper and 0.29 g/t gold to EoH including
 - 3 metres at 1.24% copper and 1.31 g/t gold

THURSDAY'S GOSSAN PORPHYRY



Thursday's Gossan RC Drilling (north section)

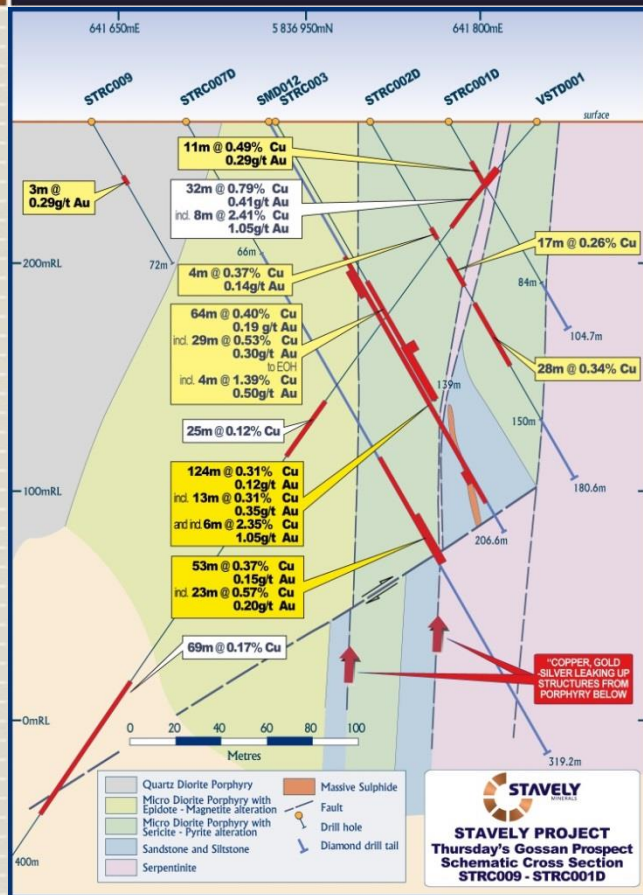
Shallow RC drill results:

- **64m at 0.40% copper and 0.19g/t gold**, including
 - **29m at 0.53% copper and 0.3g/t gold** to end of hole
- **11m at 0.49% copper and 0.29g/t gold**, and

A number of RC drill holes stopped in grade.

see ASX announcements on 03/07/2017, 23/08/2017 and 05/09/2017 and available from www.stavelly.com.au

THURSDAY'S GOSSAN PORPHYRY



Thursday's Gossan Diamond Tails (north section)

RC drill holes continued / twinned with diamond drill 'tails'. Diamond drill results:

- 124m at 0.31% copper and 0.12g/t gold, and
- 53m at 0.37% copper and 0.15g/t gold, including
 - 23m at 0.57% copper and 0.20g/t gold

see ASX announcement 23/08/2017 and available from www.stavely.com.au

THURSDAY'S GOSSAN PORPHYRY



Additional diamond drill results:

- **314m at 0.11% copper**
- **283m at 0.16% copper**
- **194m at 0.16% copper**
- **85m at 0.35% copper and 0.18g/t gold**
- **124m at 0.31% copper and 0.12g/t gold**
- **92m at 0.34% copper and 0.12g/t gold, incl**
 - **30m at 0.50% copper and 0.22g/t gold**

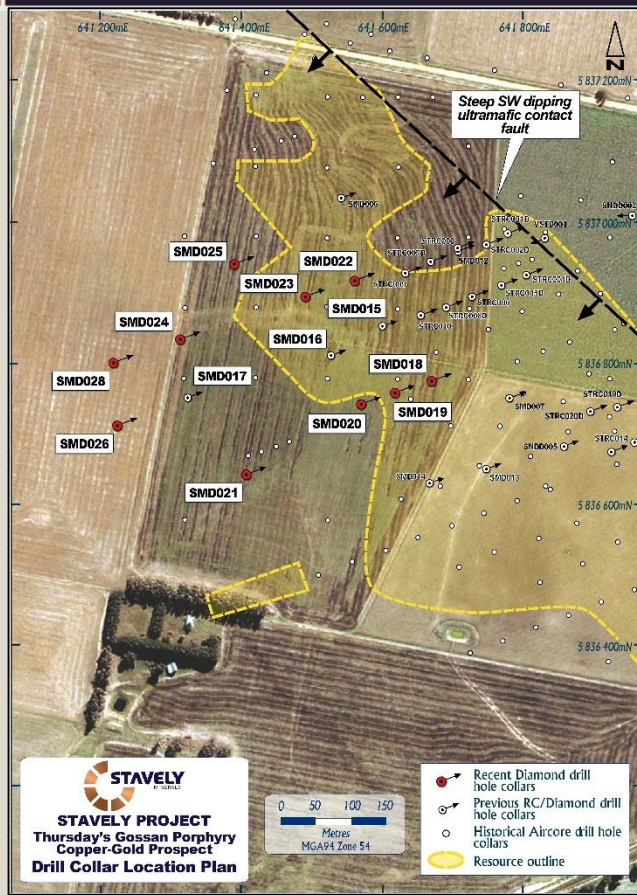
These broad intercepts are **NOT** from the potassic core of this porphyry – we have yet to drill into that zone.

The background features a dark blue field with a faint, large-scale radial pattern of concentric arcs and radial lines, resembling a stylized sunburst or a geological cross-section. In the upper right, the company logo is displayed. The word "STAVELY" is in a large, bold, white sans-serif font, with "MINERALS" in a smaller, white sans-serif font directly below it. To the left of the text is a circular emblem composed of several concentric rings, with the outermost ring being a solid copper color and the inner rings being dark blue.

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Porphyry M veins

THURSDAY'S GOSSAN PORPHYRY



Follow-up drilling continued to intercept late 'D' veins (transitioning to HS-style) in SMD015:

- 9m of 2.62% copper and 0.28g/t gold, including
 - 4m of 5.41% copper and 0.35g/t gold, including
 - 1m at 14.75% copper and 0.33g/t gold
- 4m at 5.85% copper and 0.27g/t gold, including
 - 1m at 10.75% copper and 0.60g/t gold

see ASX announcement 19/01/2018 and available from www.stavely.com.au

THURSDAY'S GOSSAN PORPHYRY



Magnetite veins intercepted in SMD015 could be far more important as a proximal indicator to mineralisation



- +120m intercept of classic porphyry 'M' veins:
- Typical of **gold-rich porphyries**
- Veins in this photo are similar to the E-1A 'M' veins at Cadia Ridgeway

THURSDAY'S GOSSAN PORPHYRY



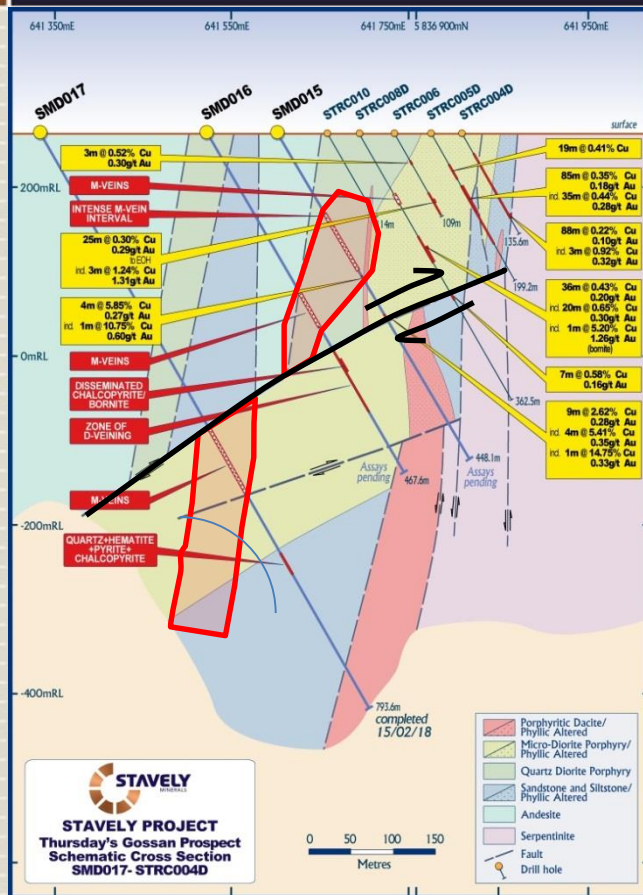
Magnetite veins intercepted in SMD015 are important as a proximal indicator to mineralisation

The veins in this photo are similar to the Cadia Ridgeway E-1B 'M' veins



see ASX announcement 12/01/2018 and available from www.stavely.com.au

THURSDAY'S GOSSAN PORPHYRY



SMD017

- 80m interval of porphyry 'M' veins from 408m to 488m – below the LAS
 - also with early porphyry 'A' veins
- The 'M' veins in SMD017 display similarities to the Cadia Ridgeway barren E-1A and E-1B veins but – importantly also the E-2 laminated 'M' veins that are associated with the main copper-gold mineralised event

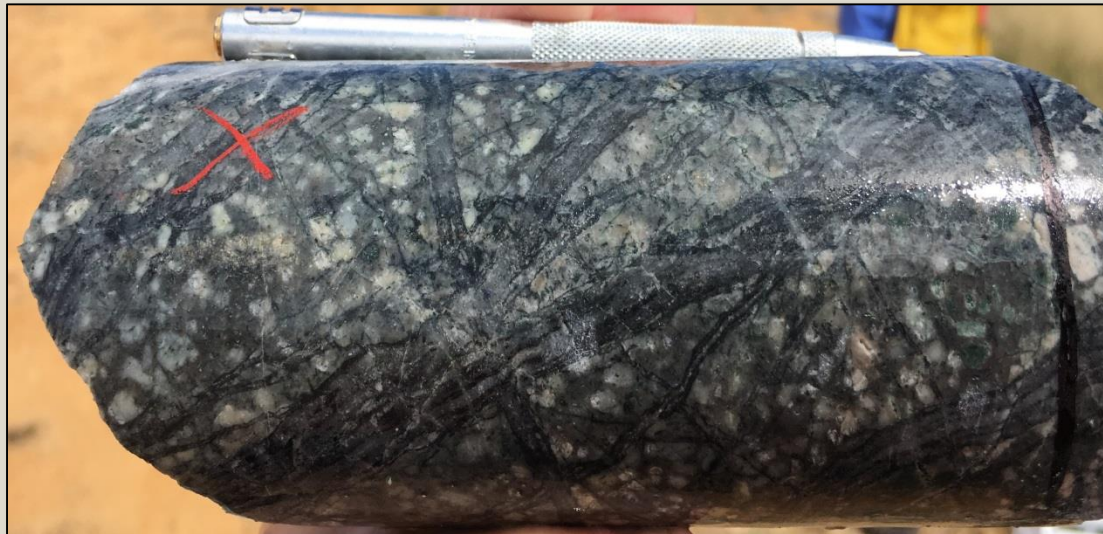
see ASX announcement 18/02/2018 and available from www.stavely.com.au

THURSDAY'S GOSSAN PORPHYRY



SMD017 468m

The veins in this photo are similar to Cadia Ridgeway E-1A and E-1B veins and are likely barren but proximal to copper-gold mineralisation



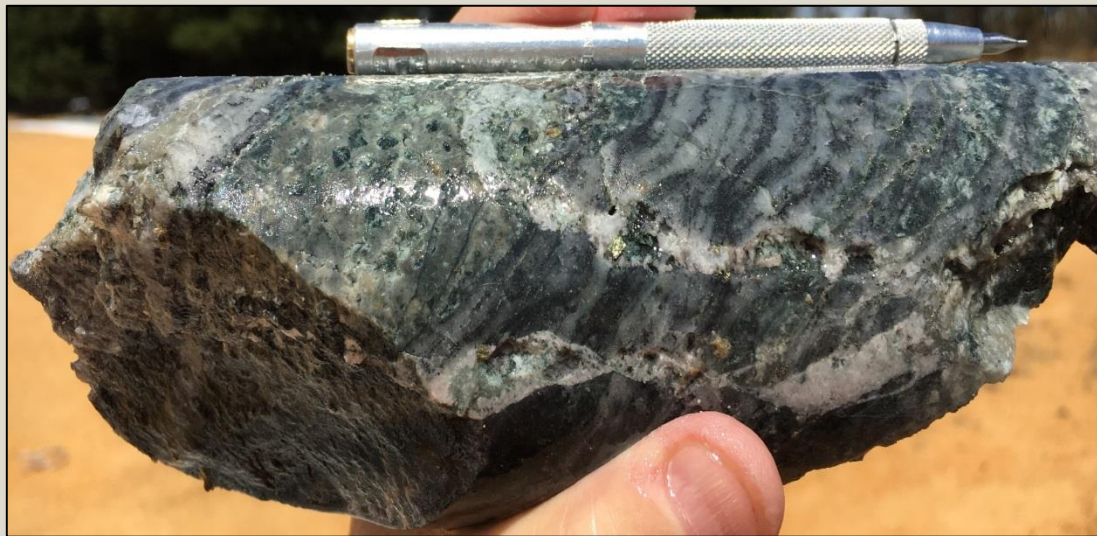
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THURSDAY'S GOSSAN PORPHYRY



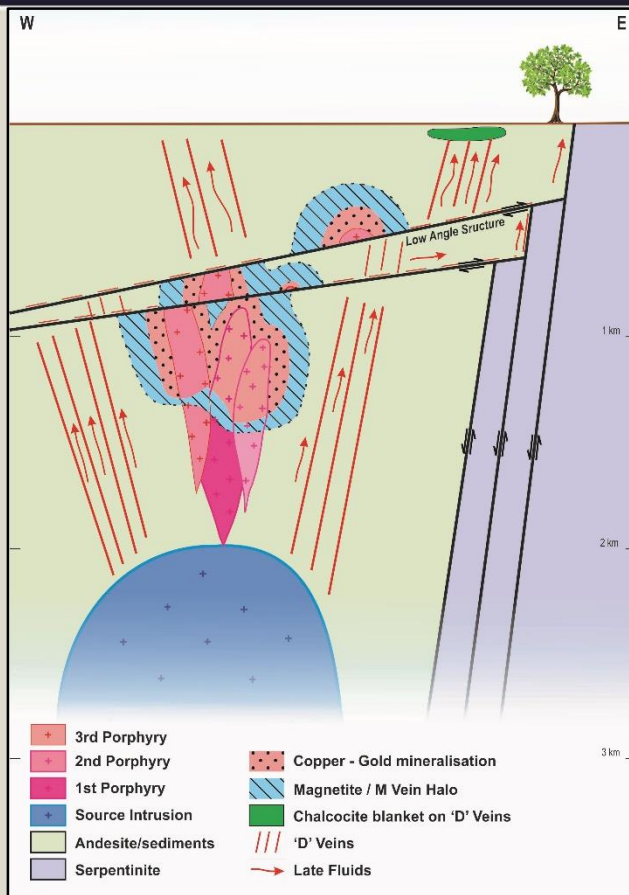
SMD017 470m

The laminated 'M' vein in this photo has inter-grown chalcopyrite with the magnetite and is similar to Cadia Ridgeway E-2 veins associated with the early copper-gold mineralisation event



see ASX announcement 18/02/2018 and available from www.stavely.com.au

THURSDAY'S GOSSAN PORPHYRY



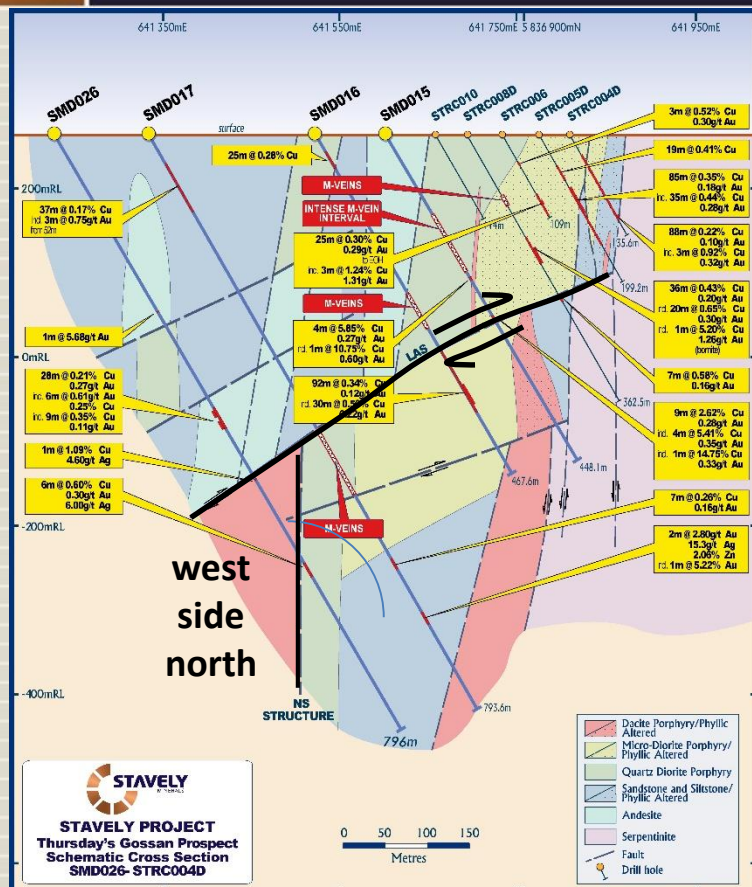
Where was the porphyry?

- By this time, we had noticed that the LAS hosted both a late plagioclase-hornblende porphyry dyke AND copper-gold mineralised late porphyry D veins
- The deeper intercepts of the ultramafic contact structure below the LAS did not host D veins
- It was clear that the porphyry was not at depth on the ultramafic contact structure but was 'inboard' to the west

But wait, there's more -

Mother Nature has had 500Ma to move the furniture around downstairs...

THURSDAY'S GOSSAN PORPHYRY



SMD026

- Intercepted another major structure below the LAS
- The north-south (NS) structure has a component of dextral strike-slip
- Higher grades of gold encountered (carbonate / BM-style):
 - 1m at 5.68g/t gold
 - 28m at 0.21% copper and 0.27g/t gold, including
 - 6m at 0.25% copper and 0.61g/t gold
 - 6m at 0.60% copper and 0.30g/t gold

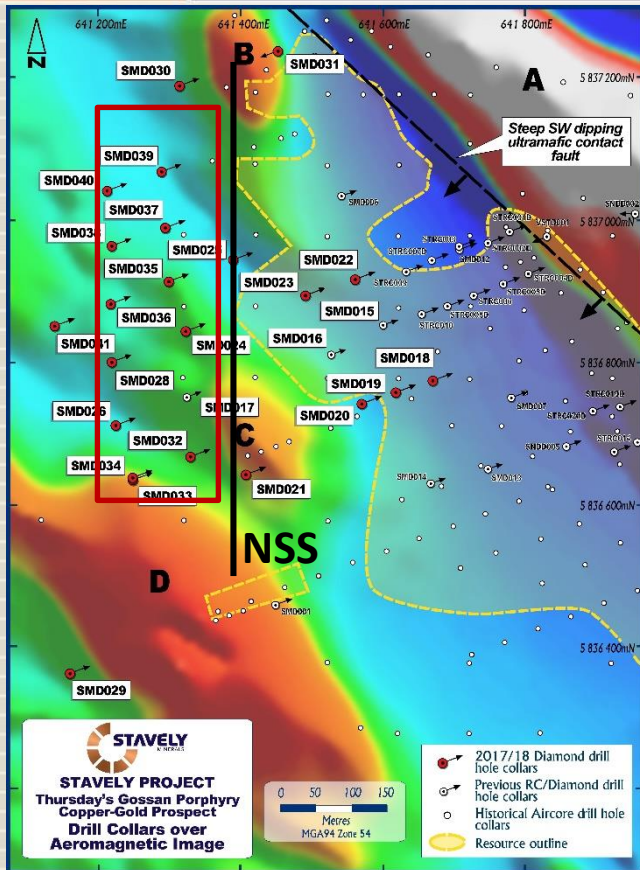
see ASX announcement 5/09/2018 and available from www.stavely.com.au

THURSDAY'S GOSSAN PORPHYRY

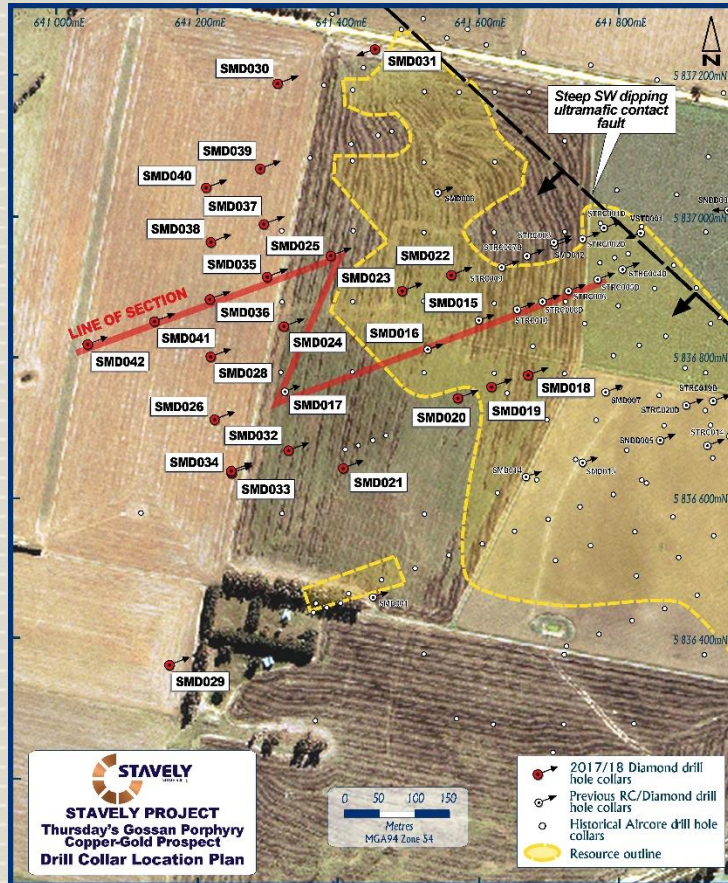


Drill Prospecting the NSS

- Drilled 6 fences of 2 x holes 'prospecting' the NS structure looking for the hotter portion before drilling deeper
- SMD035 and SMD036 intercepted M veins on the western side of the NS structure
- Drill hole SMD041 has also intercepted porphyry A-M veins and aplite vein dykes and porphyry M veins
- Alteration is increasing in temperature from inner propylitic epidote to actinolite ± magnetite with intergrown chalcopyrite



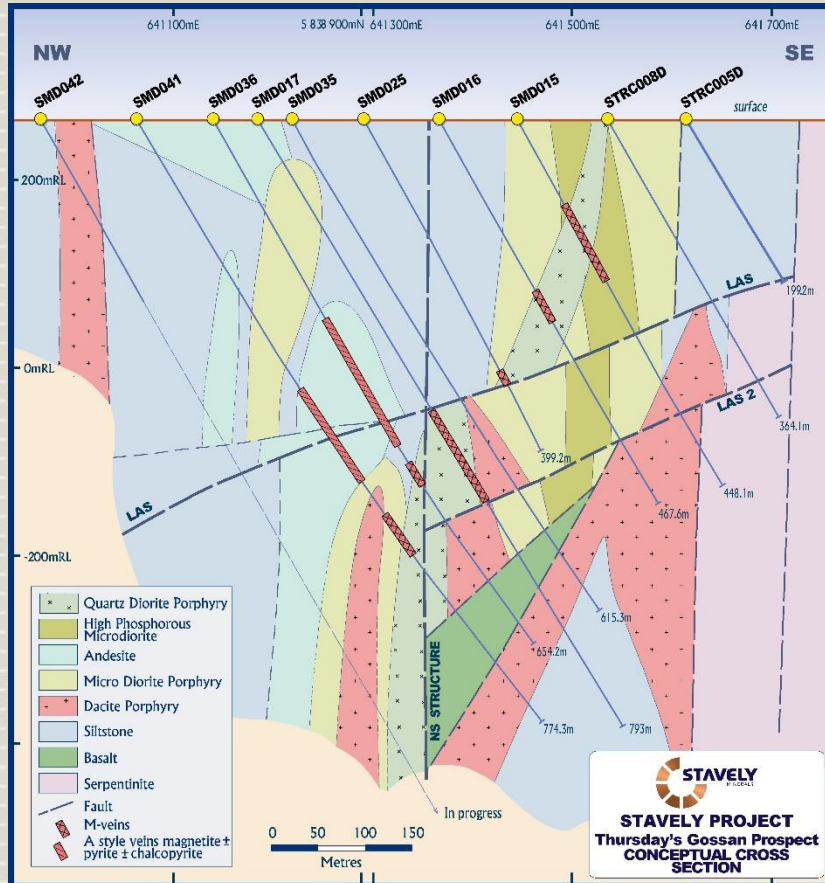
THURSDAY'S GOSSAN PORPHYRY



Structural offset on **BOTH** the low-angle structure **AND** the north-south structure

The rest of the presentation will deal with a 'composite' cross section – it does incorporate a small amount of artistic licence to incorporate what we are seeing across structures.

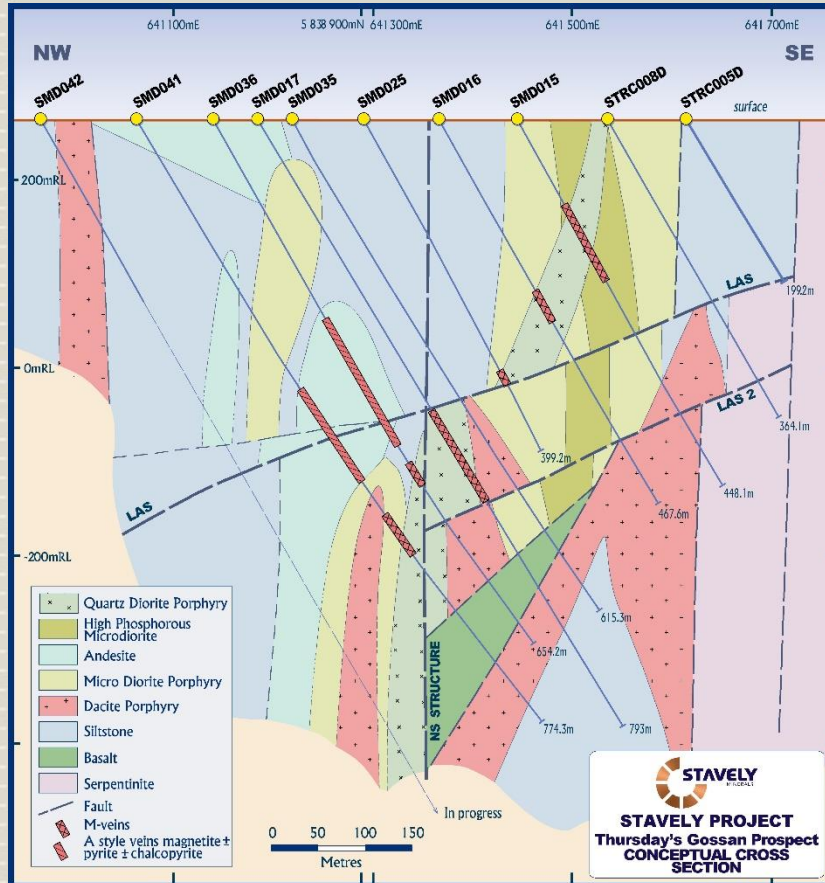
THURSDAY'S GOSSAN PORPHYRY



Composite section - key elements

1. Pre-mineralisation host units are:
 - Sandstone/siltstone
 - Andesite flows
 - Serpentinite
2. Pre- / Syn –mineralisation intrusions include:
 - Quartz diorite porphyry
 - Micro-diorite porphyry
 - High-P microdiorite
 - Dacite porphyry
3. Structures are:
 - Serpentinite contact
 - Low-angle structures
 - North-south structure

THURSDAY'S GOSSAN PORPHYRY



Composite section - key elements

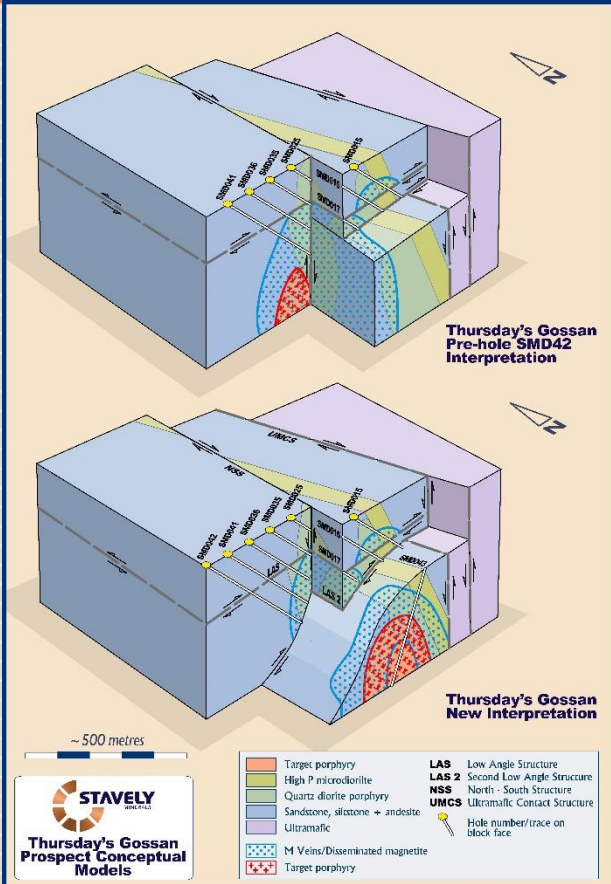
4. Aplite vein-dykes and porphyry A-M veins
5. Porphyry M veins
 - i. Magnetite \pm quartz
 - ii. Quartz with magnetite margins \pm magnetite centrelines
 - iii. Laminated M veins
6. Late dacite and lamprophyre dykes

THURSDAY'S GOSSAN PORPHYRY



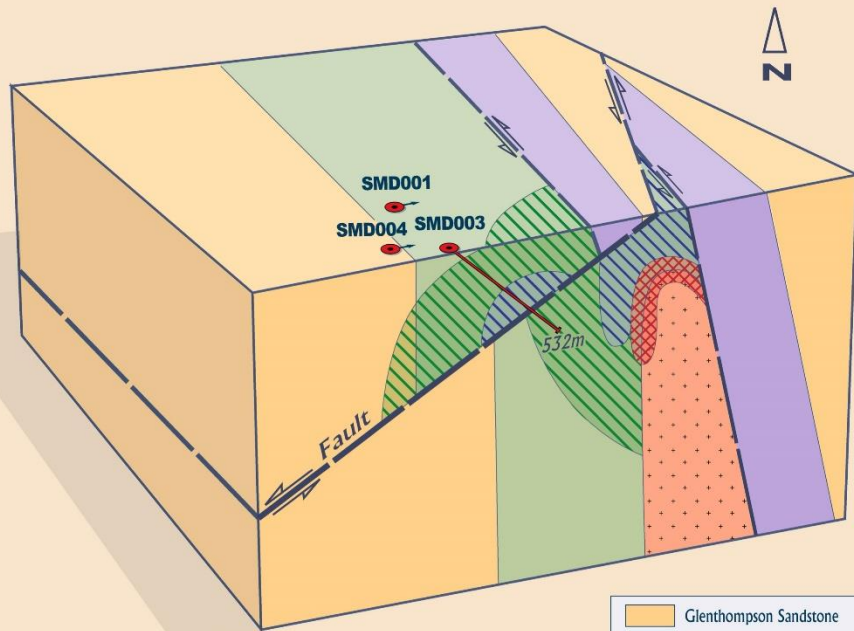
SMD042 and SMD044

- SMD042 drilled just prior to Christmas
- Intercepted the NS structure 225m earlier than expected
- Required a re-think of the structural geometries
 1. The LAS was not mineralised to the north but was to the south
 2. The NS structure is mineralised with higher grade to the south
- ❖ Therefore, with the NS structure shallowing to the west at depth, the porphyry had to be 'under' it on the east side
- ❖ If it's on the east side of the NS structure, it must be south due to the dextral movement on the NS structure (right side towards south)



see ASX announcement 5/09/2018 and available from www.stavely.com.au

HYPOTHESISE, DRILL, OBSERVE, ADAPT

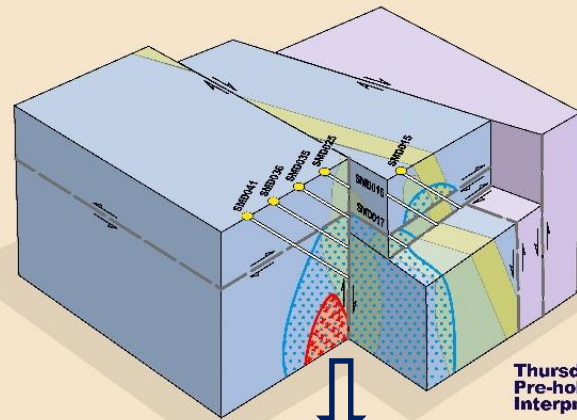


~ 500 metres

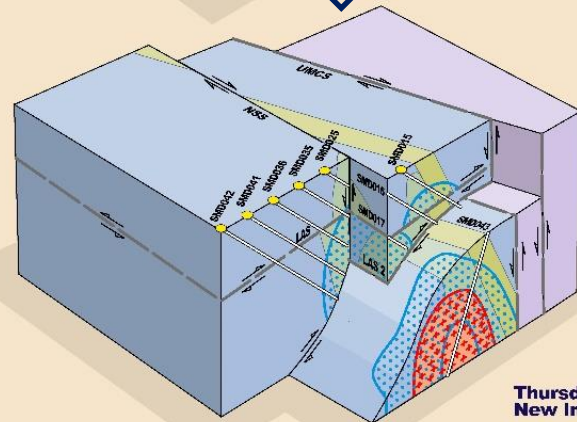


**Thursday's Gossan
Prospect 3D Model**

not to scale

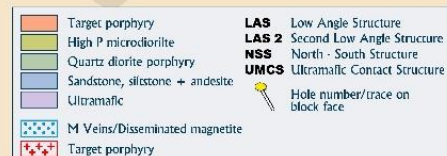


**Thursday's Gossan
Pre-hole SMD42
Interpretation**



**Thursday's Gossan
New Interpretation**

~ 500 metres



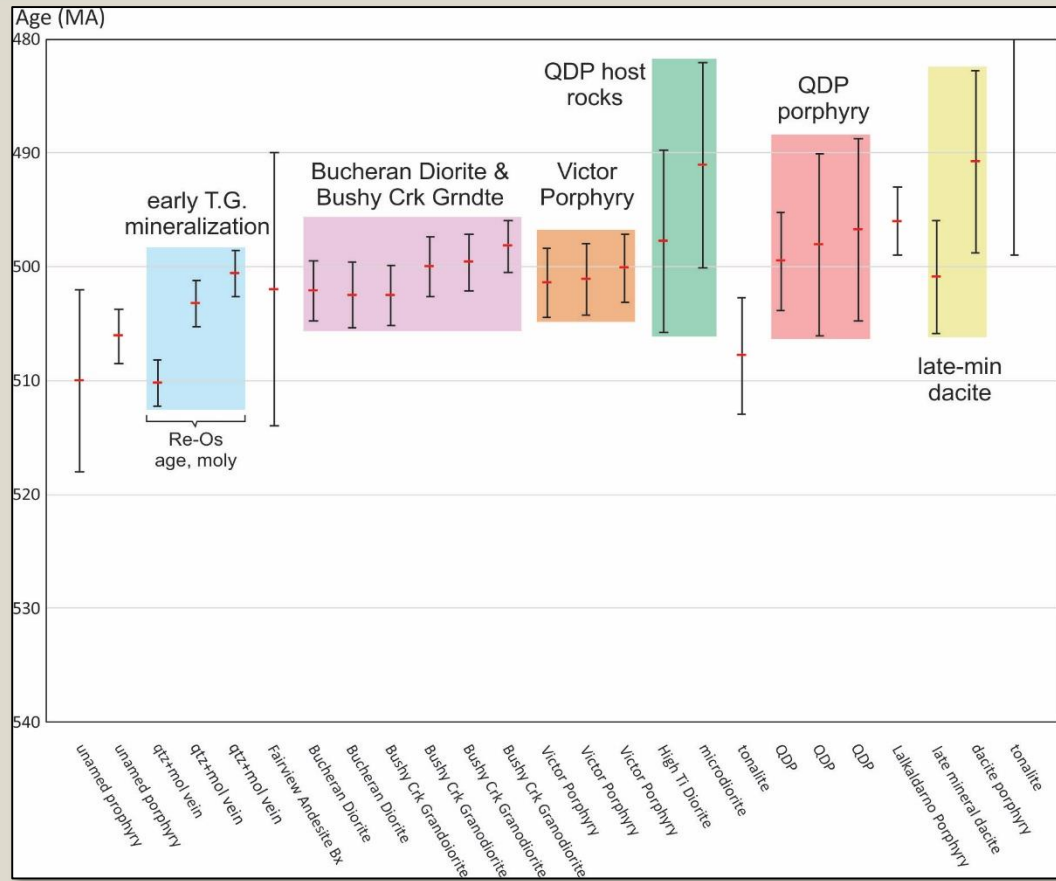
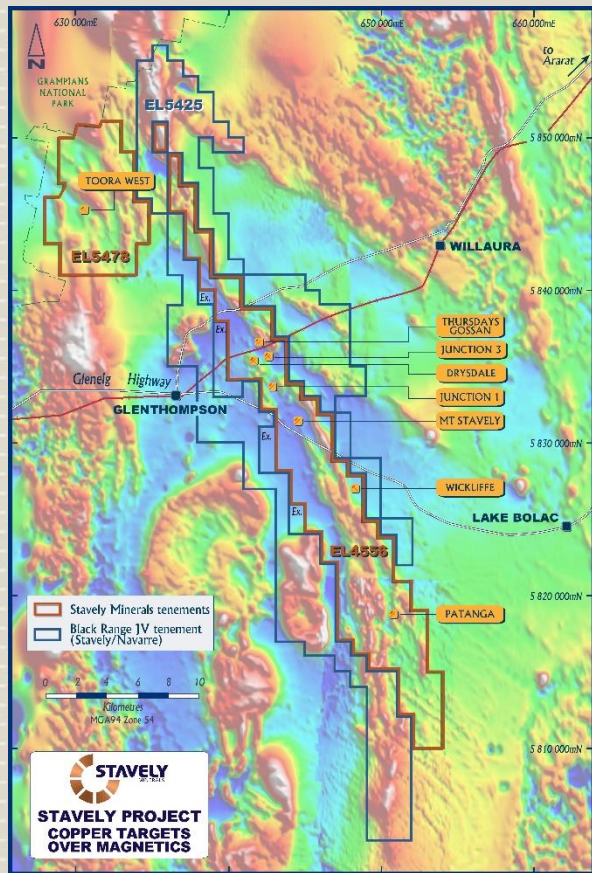
The background features a dark blue field with a faint, large-scale radial grid pattern. A vertical bar on the left side is split into a copper-colored top half and a white bottom half. The Stavelly Minerals logo is positioned in the upper right, featuring a circular emblem with a copper-colored ring and a dark blue center. The text "STAVELY" is in large, bold, white capital letters, with "MINERALS" in smaller, white capital letters below it.

STAVELY
MINERALS

New Age Relationships

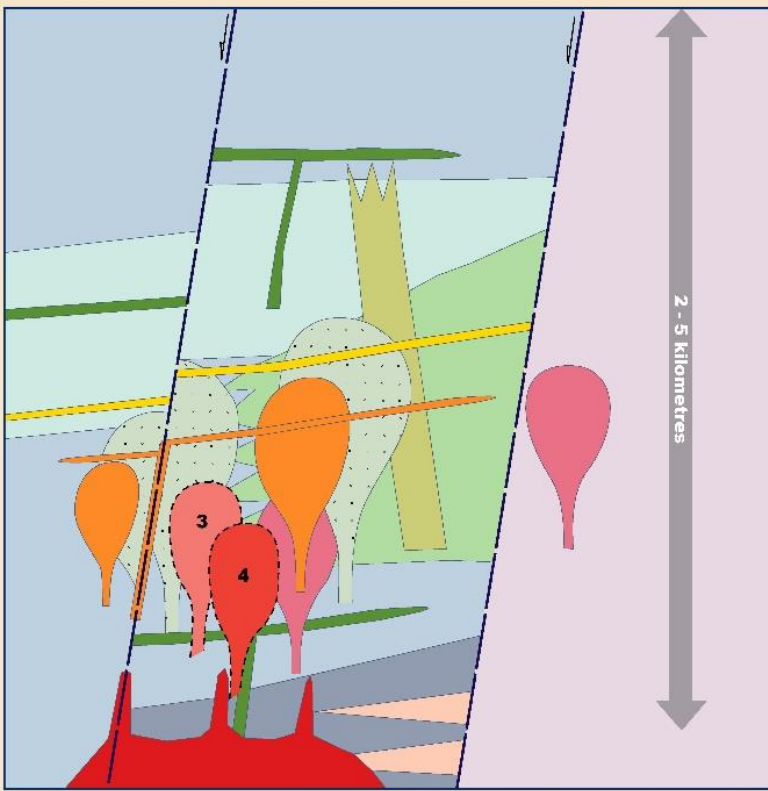
NEW KIDS IN TOWN

STAVELY
MINERALS



Thursday's Gossan Stratigraphy / Intrusive History

- Early 'Victor' porphyry synchronous with Bushy Creek Granodiorite and Buckeran Dolerite
- Then the high-phosphorous microdiorite
- Then the quartz diorite porphyry (QDP)
- QDP is cut by pyritic late porphyry D veins that must come from porphyry #3(unseen)
- D veins are re-opened / brecciated and filled with a later copper sulphide event
- The copper-gold-silver event is inferred to have come from porphyry #4 (unseen)



POST-MINERAL	
	LKD dyke
LATE-MINERAL	
	Late Mineral Dacite, dacite porphyry
SYN-MINERAL	
	Inferred Porphyry 4
	Inferred Porphyry 3
	Quartz Diorite Porphyry
	Victor Porphyry, tonalite
	Parental magma chamber

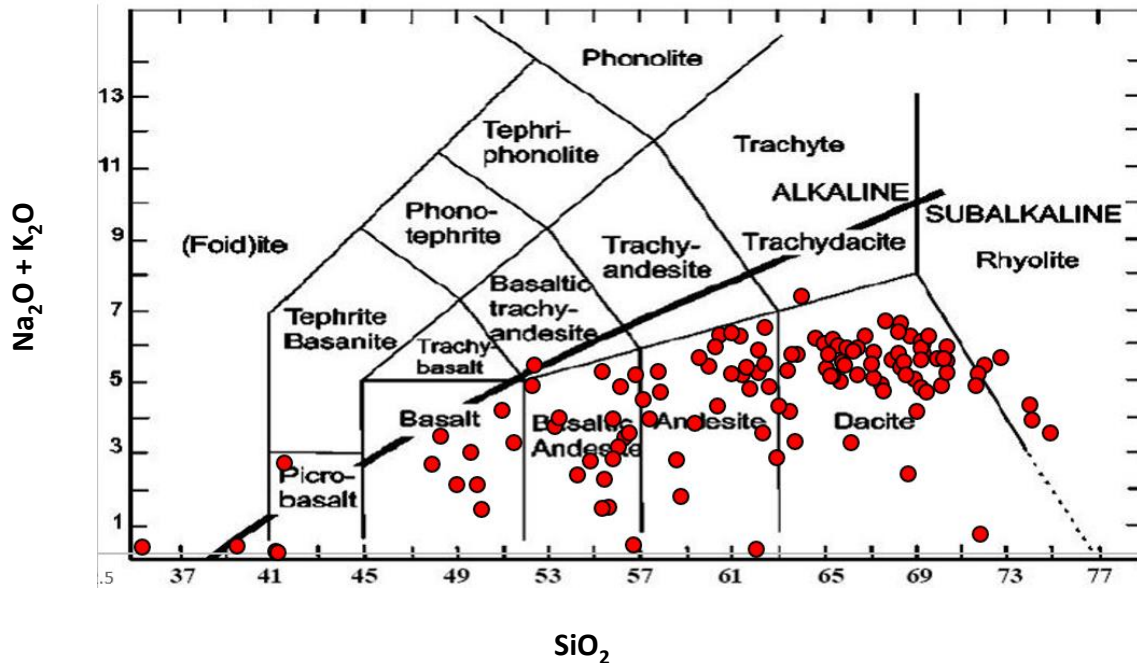
PRE-MINERAL	
	High phosphorous Micro-diorite
	Micro-diorite
	Basalt
	Andesite
	Sandstone, siltstone
	Sedimentary Breccia
	Mudstone
	Serpentinite

Lithogeochemistry of Younger Porphyries

THURSDAY'S GOSSAN PORPHYRY



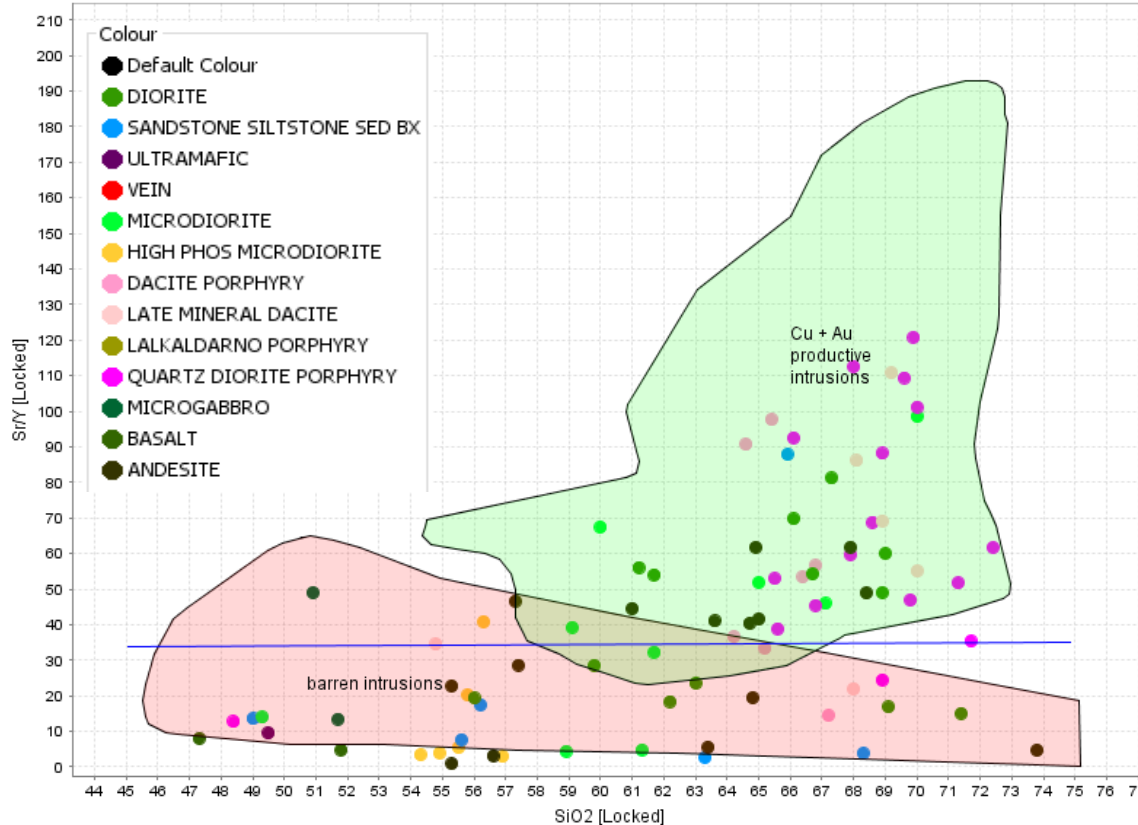
The later set of porphyries and host units plot largely in the sub-alkalic fields with a few samples plotting just into the alkalic zone



THURSDAY'S GOSSAN PORPHYRY



Sr/Y vs SiO₂ wt%



Loucks' Fertility Plot

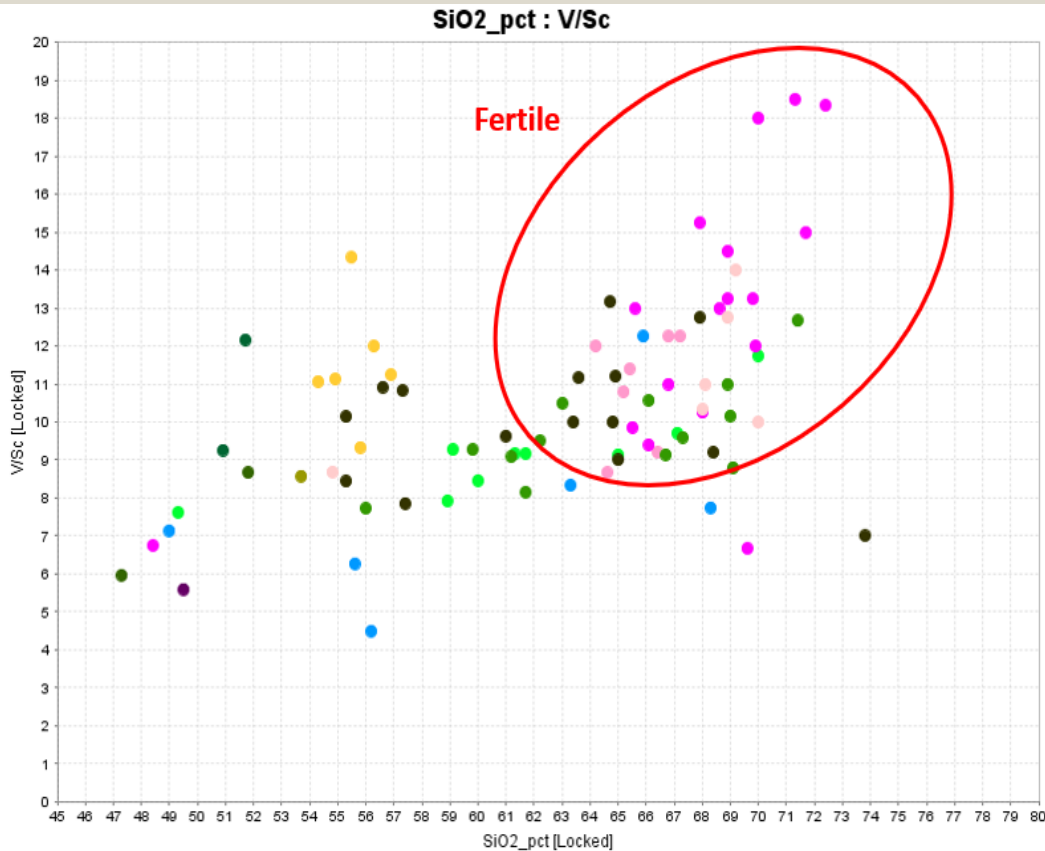
The late porphyries plot well into the Cu+Au productive intrusion field

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Colour

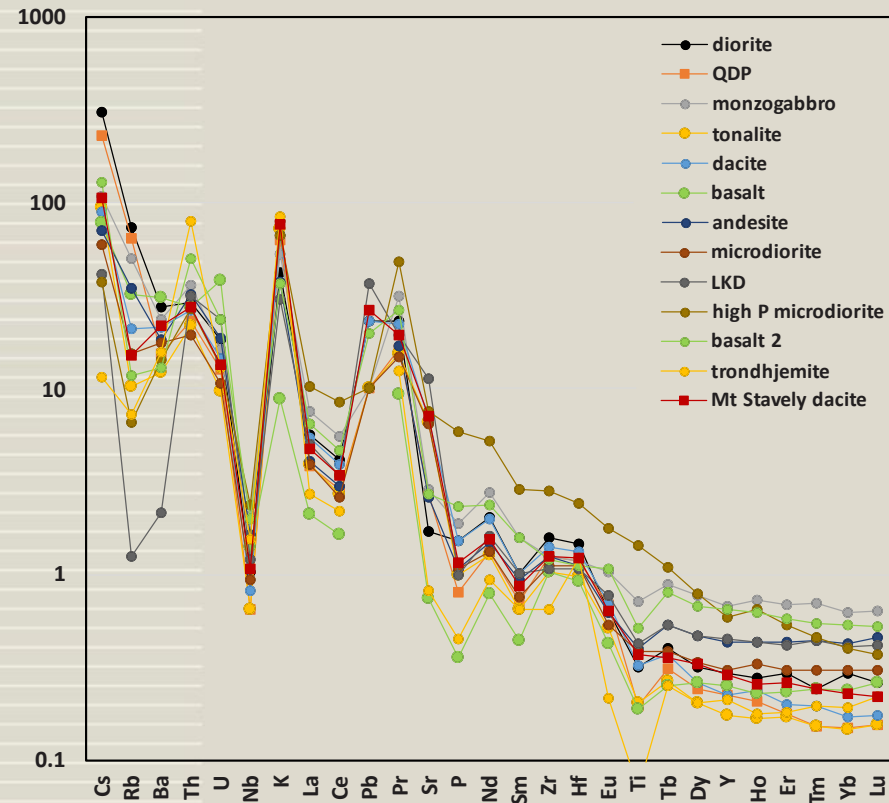
- Default Colour
- DIORITE
- SANDSTONE SILTSTONE SED BX
- ULTRAMAFIC
- VEIN
- MICRODIORITE
- HIGH PHOS MICRODIORITE
- DACITE PORPHYRY
- LATE MINERAL DACITE
- LALK'ALDARNO PORPHYRY
- QUARTZ DIORITE PORPHYRY
- MICROGABBRO
- BASALT
- ANDESITE



Loucks' Fertility Plot

The late porphyries plot well into the Cu productive intrusion field - this ratio not 100% discriminant for gold-rich porphyries but many giant Cu+Au porphyries do plot in this field

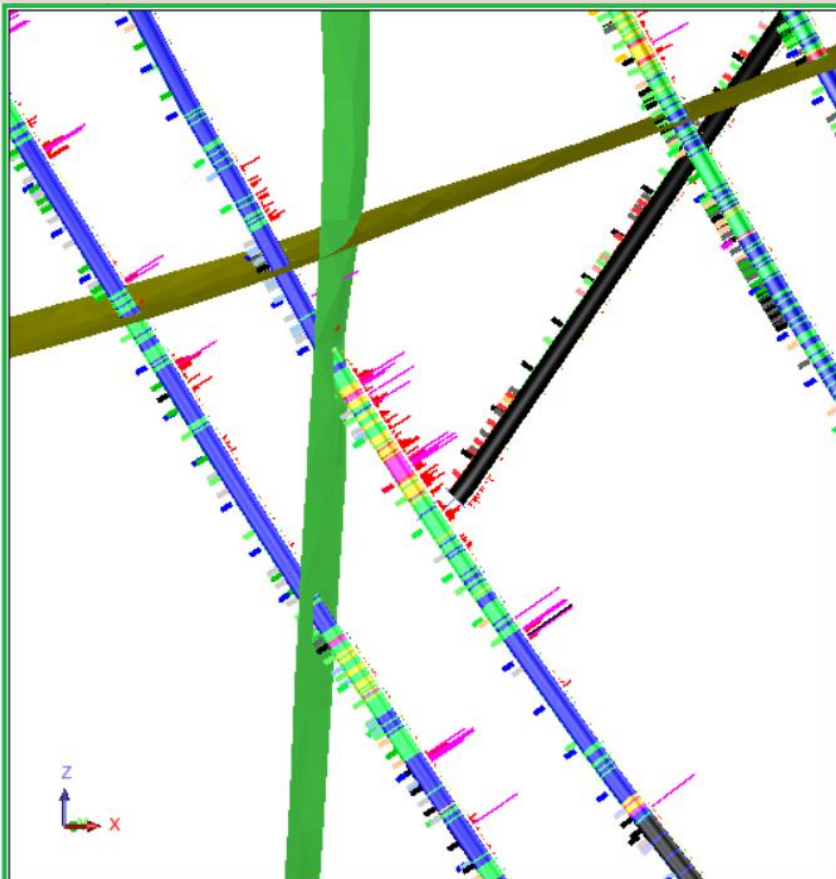
THURSDAY'S GOSSAN PORPHYRY



MORB normalised spidergram

- Host rocks at Thursdays Gossan have the trace element signature of arc magmas: enriched in K and Pb; depleted in Ti and Nb relative to MORB
- Normal fractionation trends
- High phosphorous microdiorite is enriched in P, Nd, Sm, Zr, Hf, Eu, Ti and Tb compared to all other rock types
- indicates magma derived from a heterogeneous source region with a greater component of high field strength element-enriched, metamorphosed mantle wedge

THURSDAY'S GOSSAN PORPHYRY



V/Sc ratio maps the hydrothermal system very well

The histograms on the drill hole trace are the mag sus.

M vein interval in drill hole SMD017 located below the LAS (mustard) and east of the NSS (green).

The high V/Sc values (coloured hole trace) are interpreted to indicate a very hydrous magmatic system.

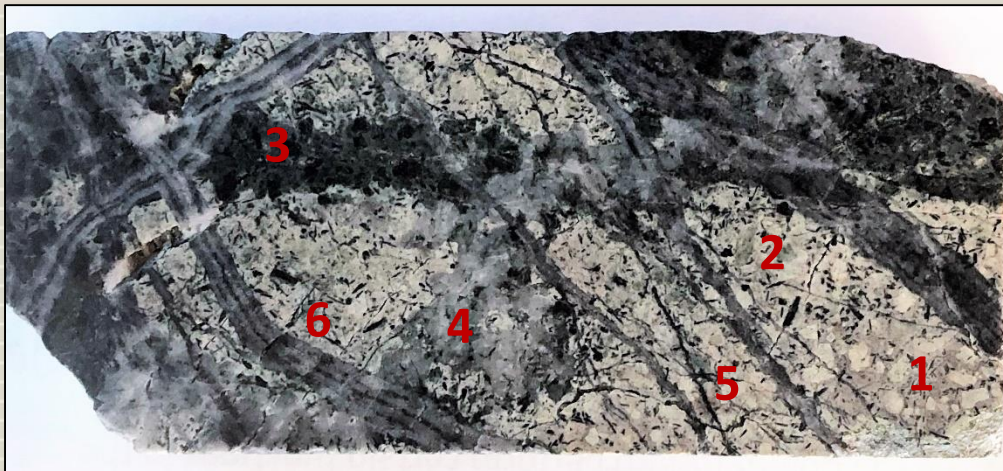


SWIR data

THURSDAY'S GOSSAN PORPHYRY

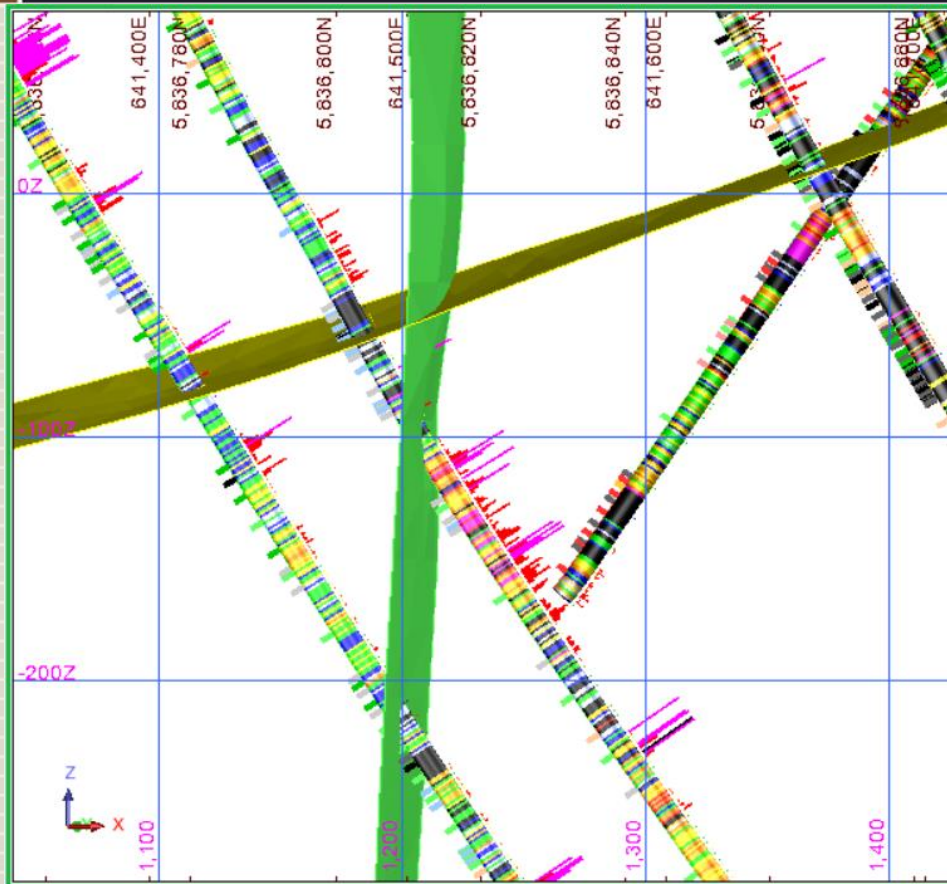


Multiple alteration events complicates the spatial distribution of SWIR alteration mineralogy



1. Early prograde weak K-spar alteration of the groundmass
2. Retrograde sericite / pyrite overprint
3. Prograde early dark micaceous (EDM) vein
4. Prograde 'wormy' and diffuse porphyry A vein
5. Early 'wispy' magnetite-only M veins (similar to Cadia Ridgeway E1-A M veins)
6. Early quartz veins with magnetite margins \pm magnetite in the centrelines (similar to Cadia Ridgeway E1-B porphyry M veins)

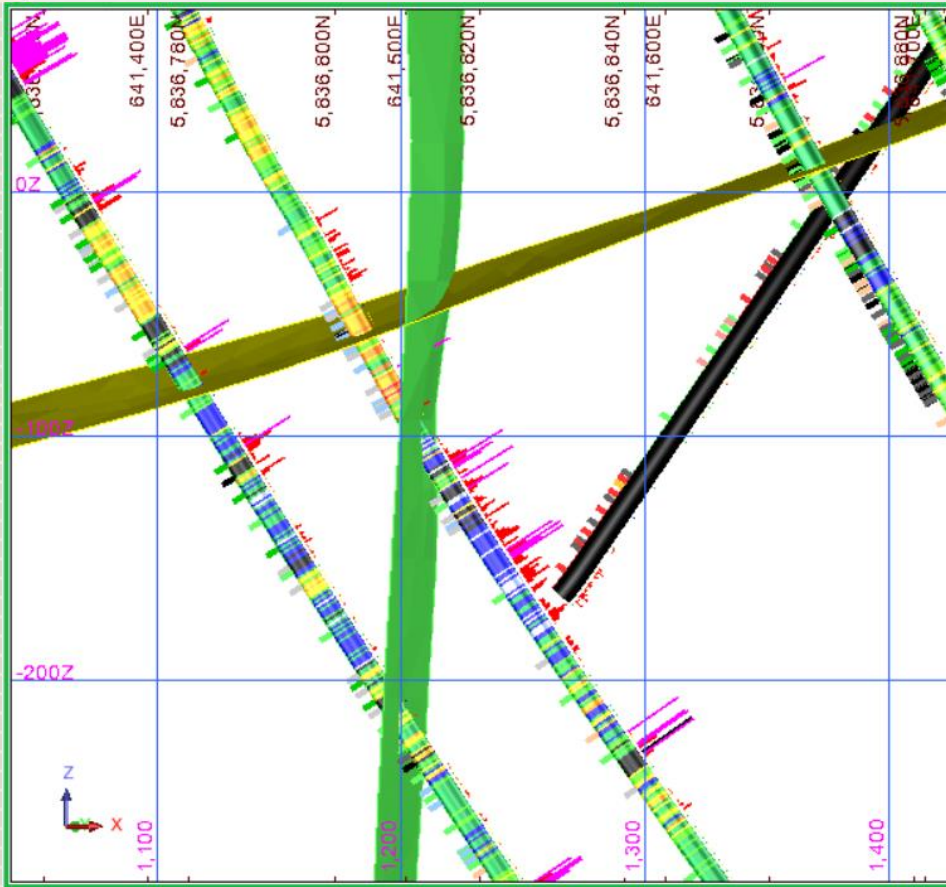
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Chlorite Composition

- Same scene – SMD017 M vein interval
- Longer-wavelength chlorite absorption features reflecting iron-rich chlorites
- Interpreted to be higher-level and a product of a lower pH fluid

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Illite Crystallinity

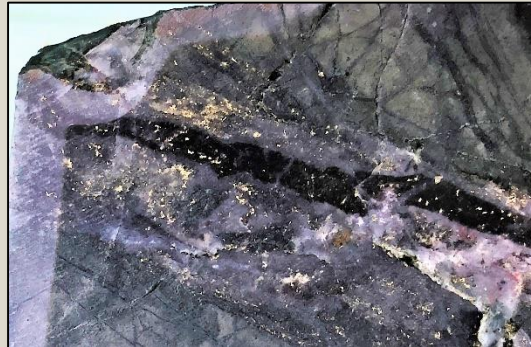
- Same scene – SMD017 M vein interval
- Lower crystallinity illite
- Interpreted to be higher-level and cooler

THURSDAY'S GOSSAN PORPHYRY



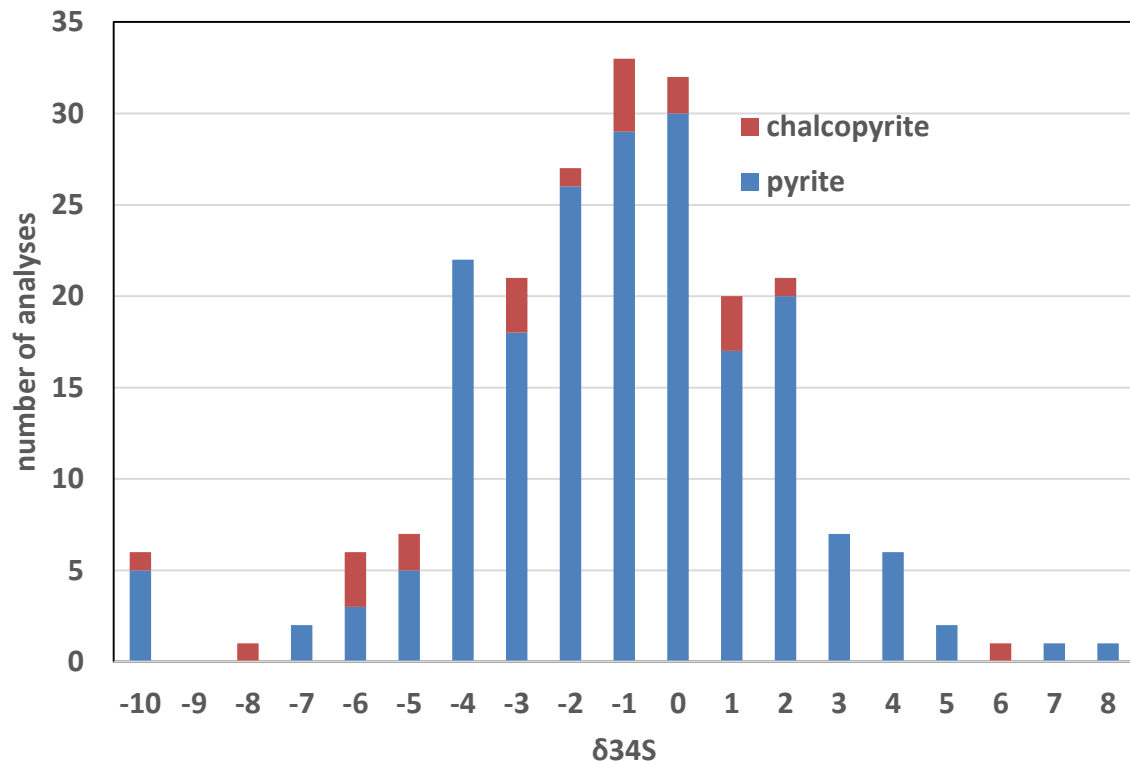
SWIR trends – consistent change from SMD015 / 016 above the LAS to SMD017 under the LAS to SMD024 to the north

- Chlorites transition from iron-rich to a mixed iron-magnesium
- Illite crystallinity increases
- Sericite absorption features move to shorter wavelengths
- ✓ Interpreted as moving from cooler to hotter conditions
- ✓ Most M veins interpreted to have formed in too cool conditions for copper sulphide deposition
- ✓ EXCEPT SMD024 where chalcopyrite is intergrown with the M veins and is interpreted to be hotter



Sulphur Isotopes

THURSDAY'S GOSSAN PORPHYRY



Some 220 $\delta^{34}\text{S}$ sulphur samples have been determined at Thursday's Gossan with:

Max 7.35‰

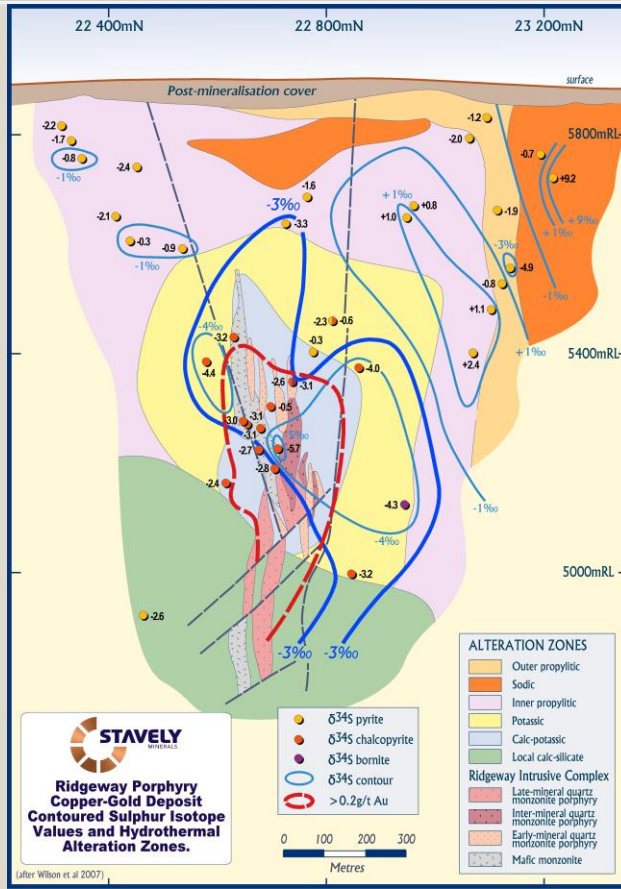
Min -37.69

Mean -1.87

Standard Deviation ± 4.15

Of which 65 samples returned $\delta^{34}\text{S}$ sulphur isotope values less than -3.0‰ – the value that most closely maps the ore zone at Cadia Ridgeway.

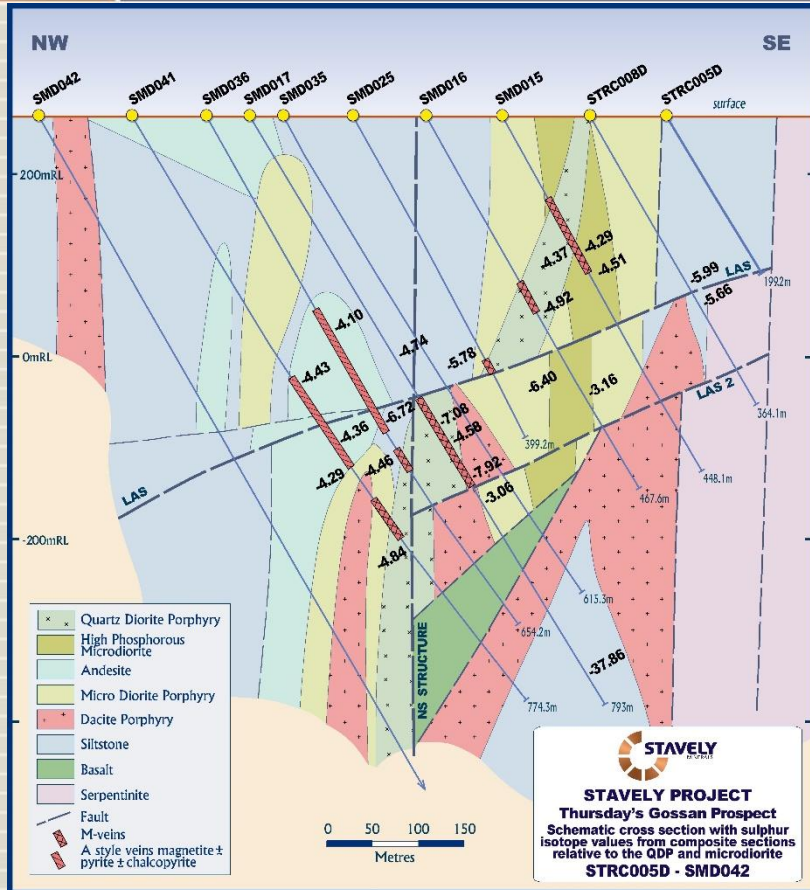
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Cadia Ridgeway sulphur isotopes (adapted from Wilson, 2007)

-3‰ $\delta^{34}\text{S}$ sulphur isotope best maps out the ore zone at Cadia Ridgeway

THURSDAY'S GOSSAN PORPHYRY



Lighter S isotopes associated with the later porphyries

Interpreted to reflect:

1. Proximity to the magmatic source
2. The strongly oxidised fluid responsible for mineralisation
3. Given we are not yet in the 'core' potassic alteration / mineralisation zone, these fluids appear to be especially oxidised – enhanced capacity for copper-gold mineralisation



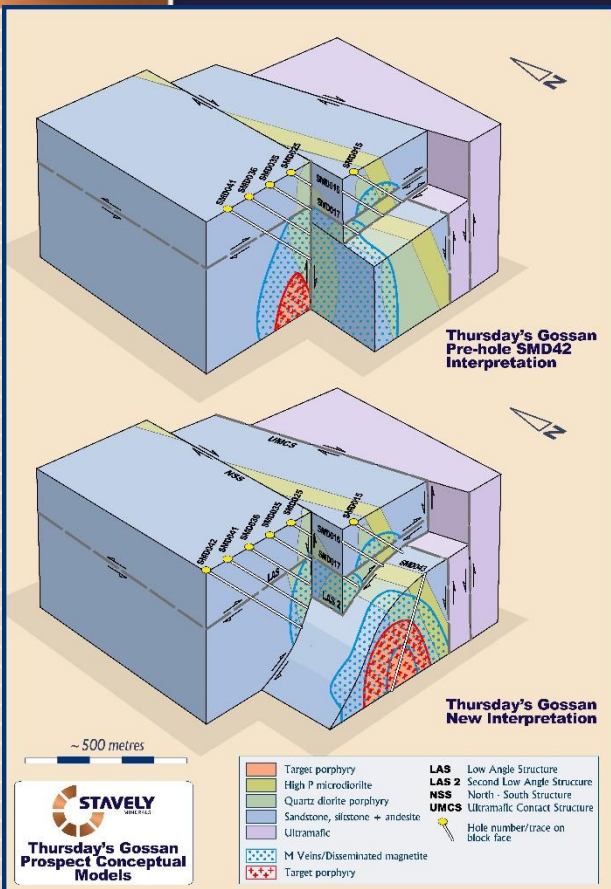
The Penny Drops

THURSDAY'S GOSSAN PORPHYRY



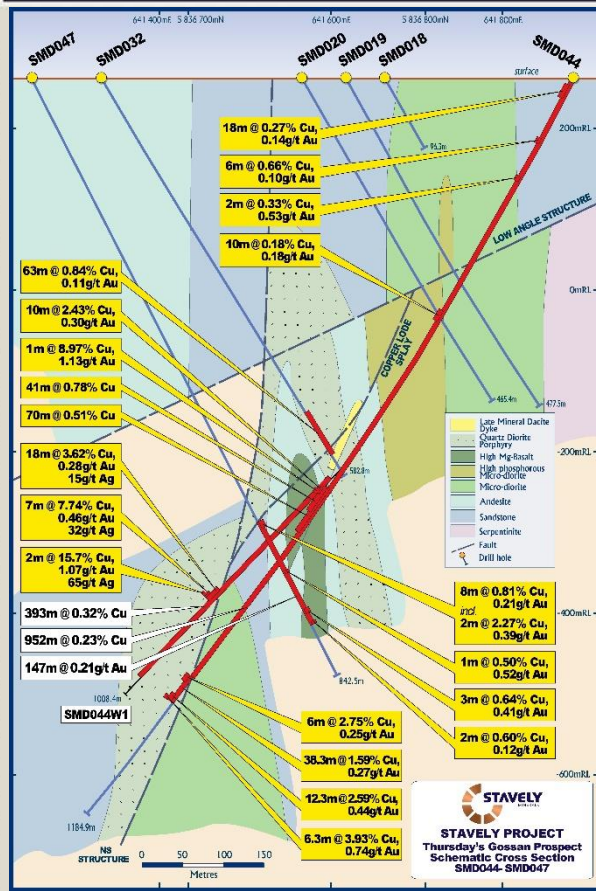
SMD042 and SMD044

- SMD042 drilled just prior to Christmas
- Intercepted the NS structure 225m earlier than expected
- Required a re-think of the structural geometries
 1. The LAS was not mineralised to the north but was to the south
 2. The NS structure is mineralised with higher grade to the south
- ❖ Therefore, with the NS structure shallowing to the west at depth, the porphyry had to be 'under' it on the east side
- ❖ If it's on the east side of the NS structure, it must be south due to the dextral movement on the NS structure (right side towards south)



see ASX announcement 5/09/2018 and available from www.stavely.com.au

THURSDAY'S GOSSAN PORPHYRY

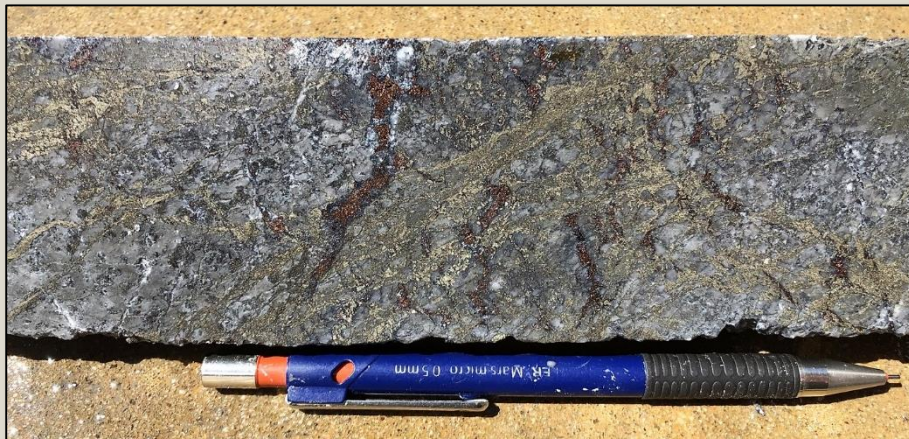


SMD044

- Large low-grade intercept of **952m at 0.23% copper** – reflects a very large system
- Included 70m of chalcopyrite mineralisation – **70m at 0.51% copper** including:
 - 10m at 2.43% copper and 0.30g/t gold
- Intercepted another interval of chalcopyrite-bornite-chalcocite-covellite mineralisation:
 - 38.3m at 1.59% copper and 0.27g/t gold, including:
 - 6m at 2.75% copper and 0.25g/t gold, and
 - 12.3m at 2.59% copper and 0.44g/t gold

see ASX announcement 12/03/2019 and available from www.stavely.com.au

THURSDAY'S GOSSAN PORPHYRY



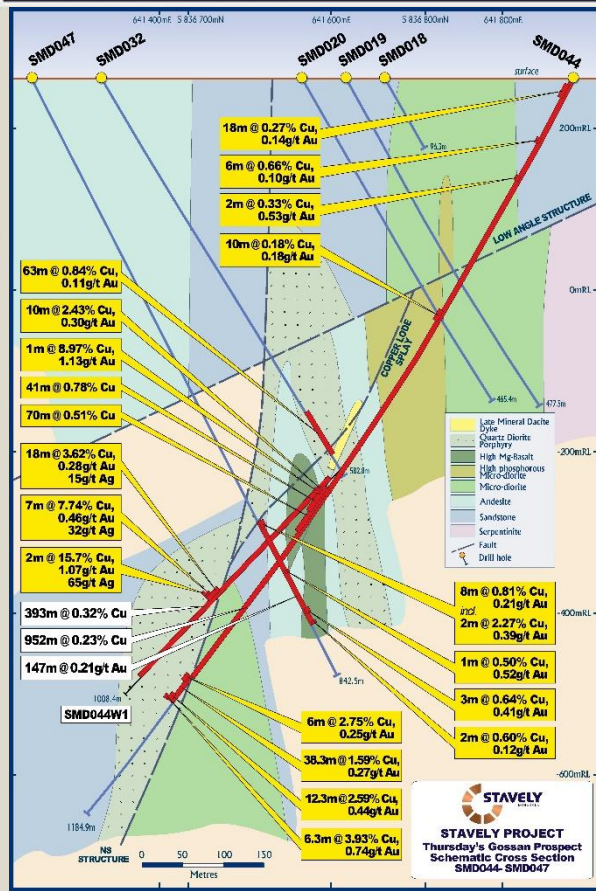
SMD044

Silica-pyrite
mineralisation cut by
bornite-chalcocite at
924.3m



see ASX announcement
18/02/2019 and available
from www.stavelly.com.au

THURSDAY'S GOSSAN PORPHYRY



SMD044W1

- Large low-grade intercept of **393m at 0.32% copper**
- Intercepted another interval of chalcopyrite-bornite-chalcocite-covellite mineralisation:
 - **18m at 3.62% copper, 0.28g/t gold and 15g/t silver, including**
 - **7m at 7.74% copper, 0.46g/t gold and 32g/t silver, including**
 - **2m at 15.7% copper, 1.07g/t gold and 65g/t silver**

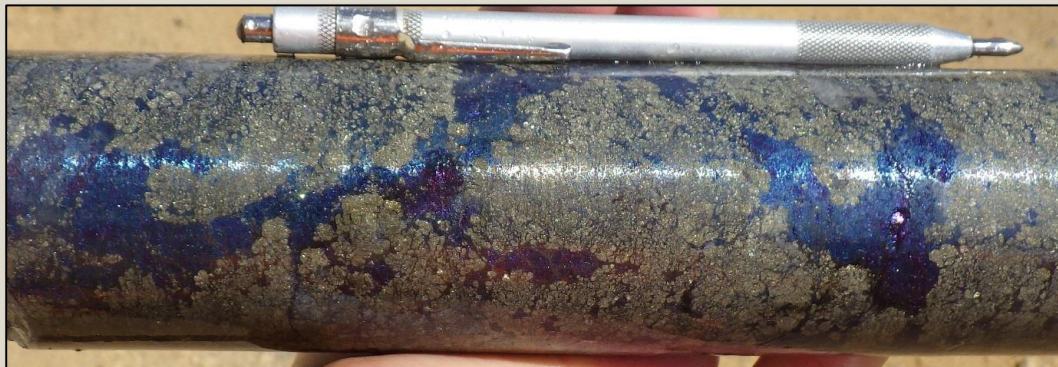


Photo 1. Pyrite vein with bornite-covellite-chalcocite(+digenite) veining at 859.0m in SMD044W1.



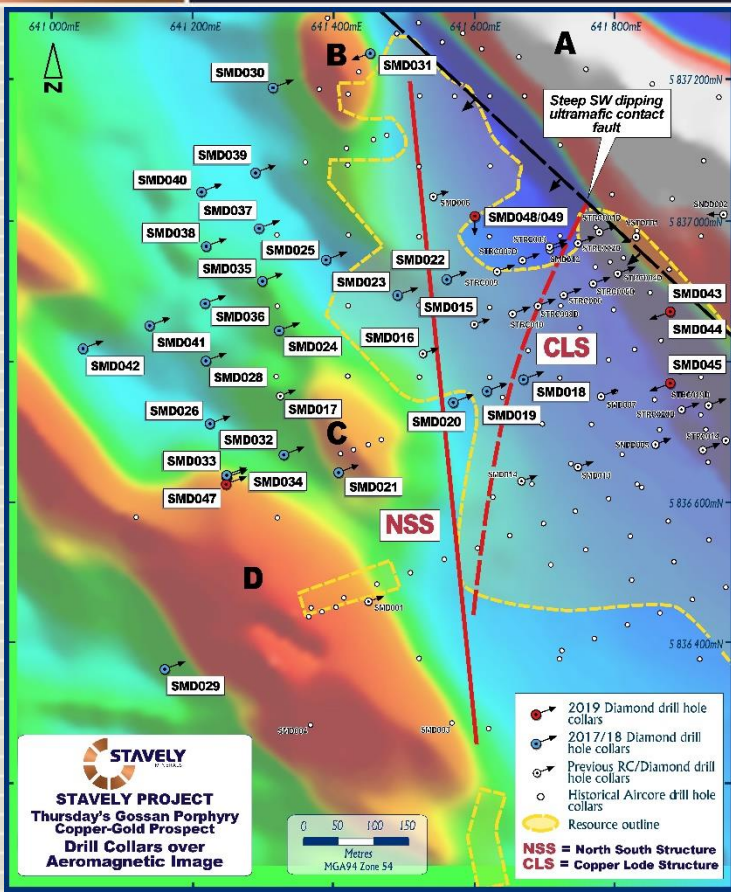
Photo 2. Chalcocite(+digenite)-bornite-covellite veining at 859.0m in SMD044W1
(This photo is of the other side of the previous photo)

SMD044W1

392m at 0.32% copper
incl.

- 18m at 3.62% Cu,
0.28g/t Au and 15g/t
Ag, including:
- 7m at 7.74% Cu,
0.46g/t Au and 32g/t
Ag, including:
- 2m at 15.7% Cu,
1.07g/t Au and 65g/t
Ag

THURSDAY'S GOSSAN PORPHYRY



Copper Lode Splay (CLS)

Intercepted in a couple of shallower holes:

- STRC019D – 3m at 2.65% copper and 1.17g/t gold
- SMD015 - 9m of 2.62% copper and 0.28g/t gold from 248m, including
 - 4m of 5.41% copper and 0.35g/t gold, including
 - 1m at 14.75% copper and 0.33g/t gold
 - 4m at 5.85% copper and 0.27g/t gold, from 196m including
 - 1m at 10.75% copper and 0.60g/t gold
- SMD032 - 6m at 6.73% copper, 0.84g/t gold, including
 - 1m at 22.8% copper, 0.91g/t gold
 - 2m at 2.43% copper, 0.28g/t gold

THURSDAY'S GOSSAN PORPHYRY



Copper Lode-style (think Magma Mine veins) pyrite-chalcopyrite-bornite-covellite-chalcocite mineralisation from 542.5m in SMD032 – note the chalcocite occurs as late network veins within the more massive sulphides

see ASX announcement 18/12/2018 and available from www.stavelly.com.au

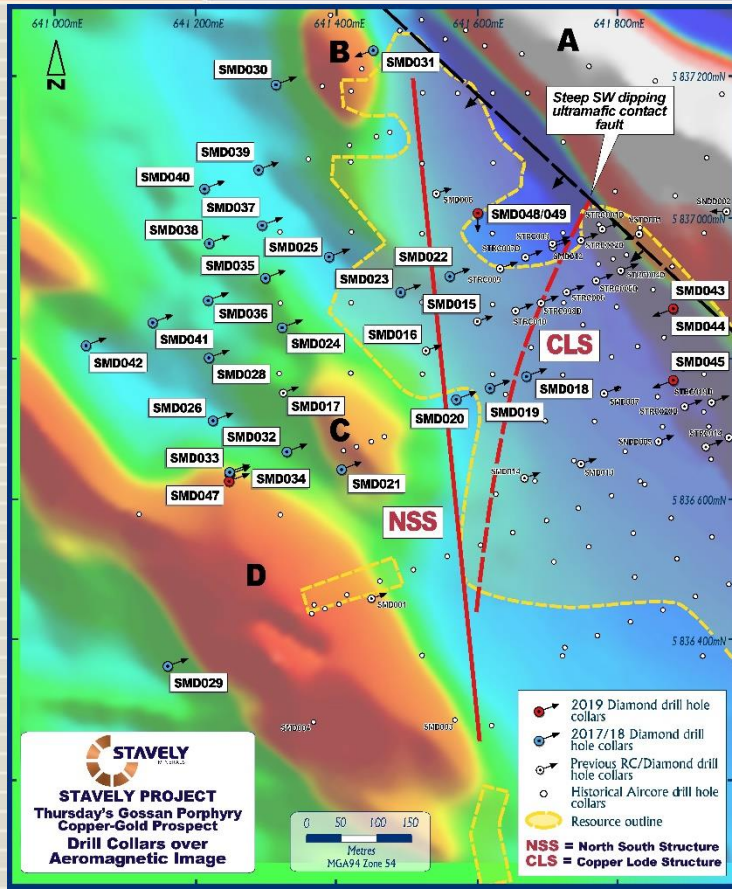
THURSDAY'S GOSSAN PORPHYRY



Copper Lode Splay

These structures are very important:

- They are a genuine exploration target in their own right – high grade, intercepted over 400m vertically and ~500m along strike – an analogy would be the **Magma Mine, Superior Arizona** or the veins at **Butte, Montana** (“the richest hill on earth”)

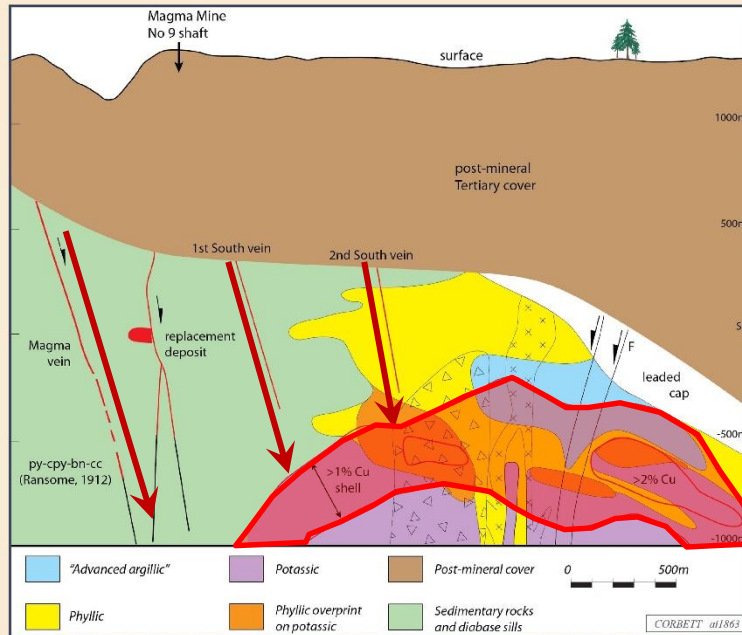


MAGMA MINE AND THE RESOLUTION PORPHYRY



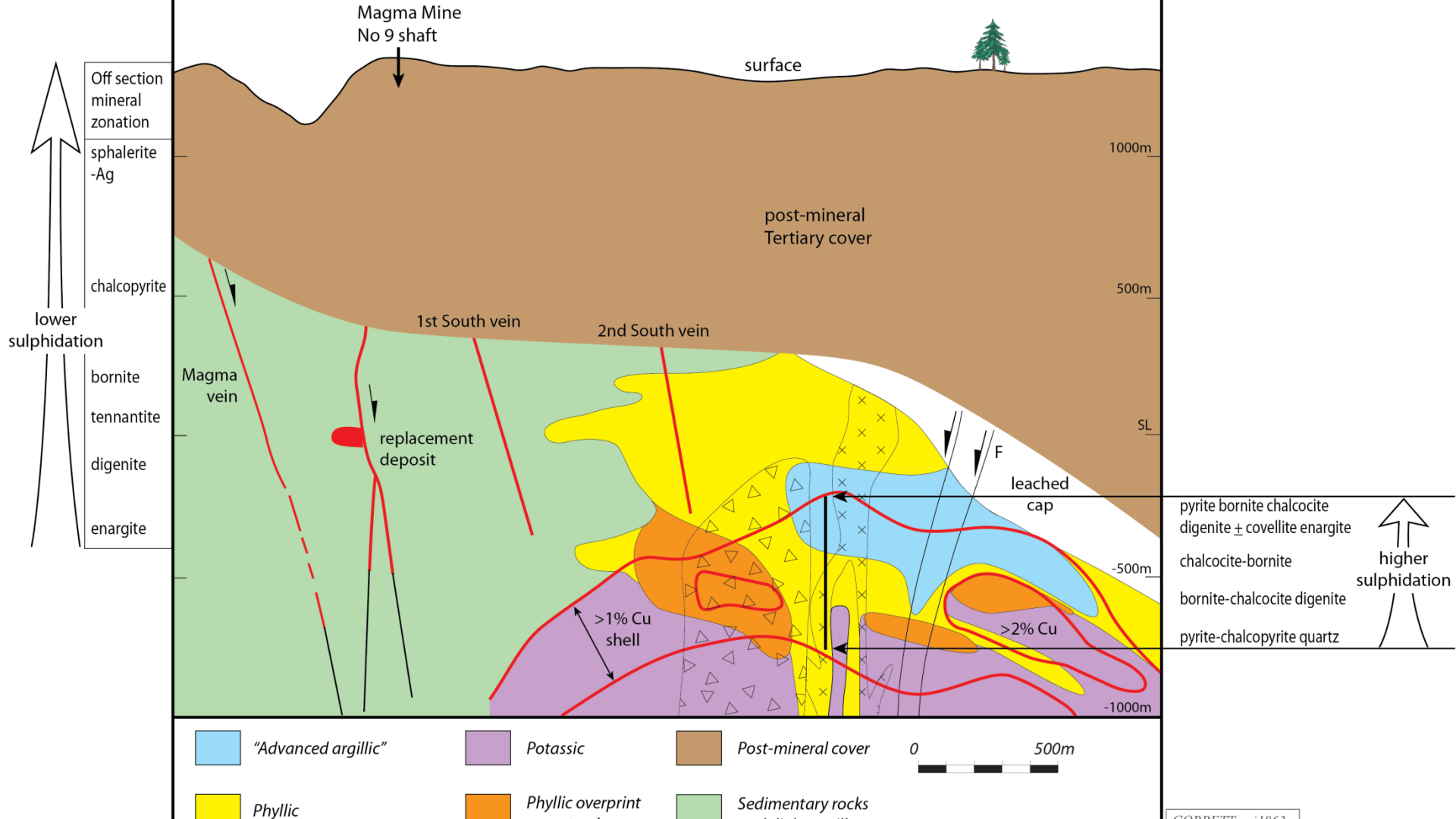
Magma Mine and the Resolution Porphyry

Can follow the Magma copper lode veins to the Resolution copper porphyry:
1.8Bt at 1.53% copper (Rio Tinto, 2018)

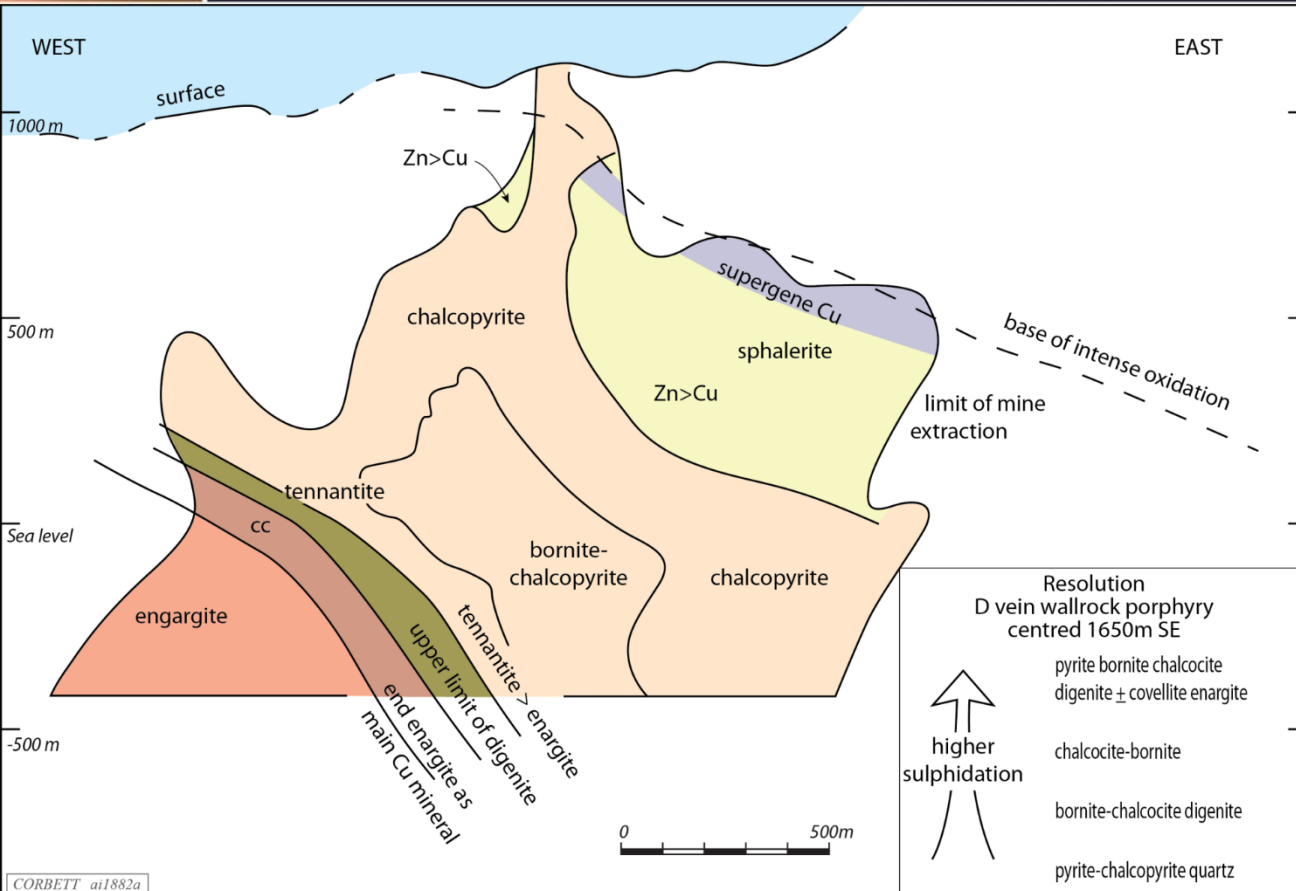


**Cross section
through the Magma Vein
and Resolution Porphyry
(along line A - A')**

(after Corbett, 2019 from Henke et al. 2012)

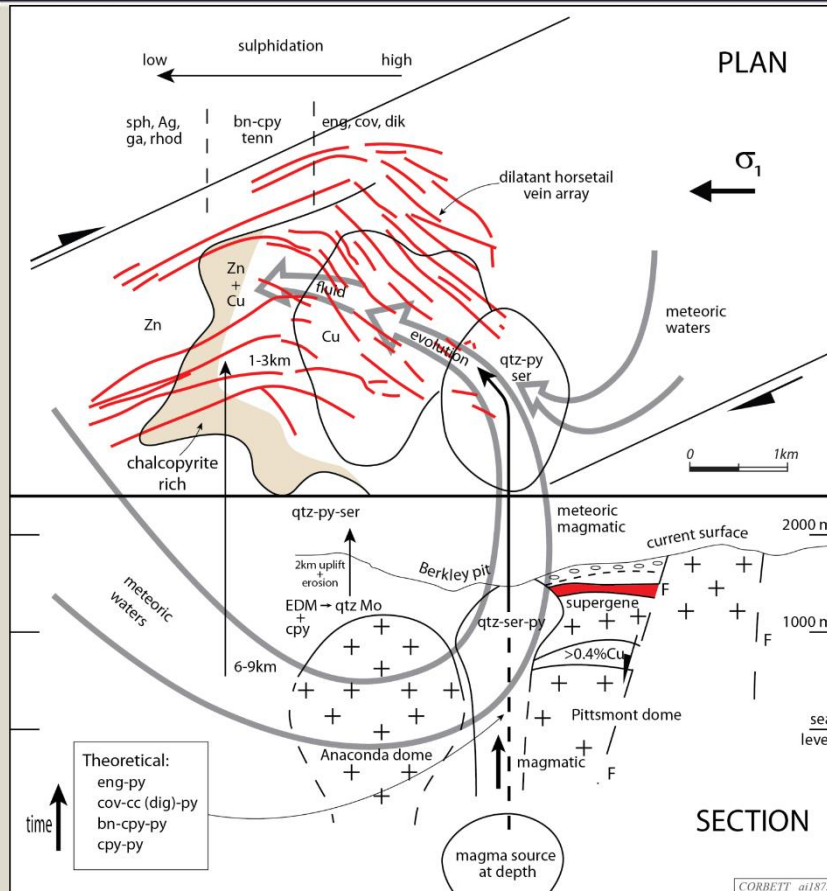


MAGMA VEIN LONG SECTION



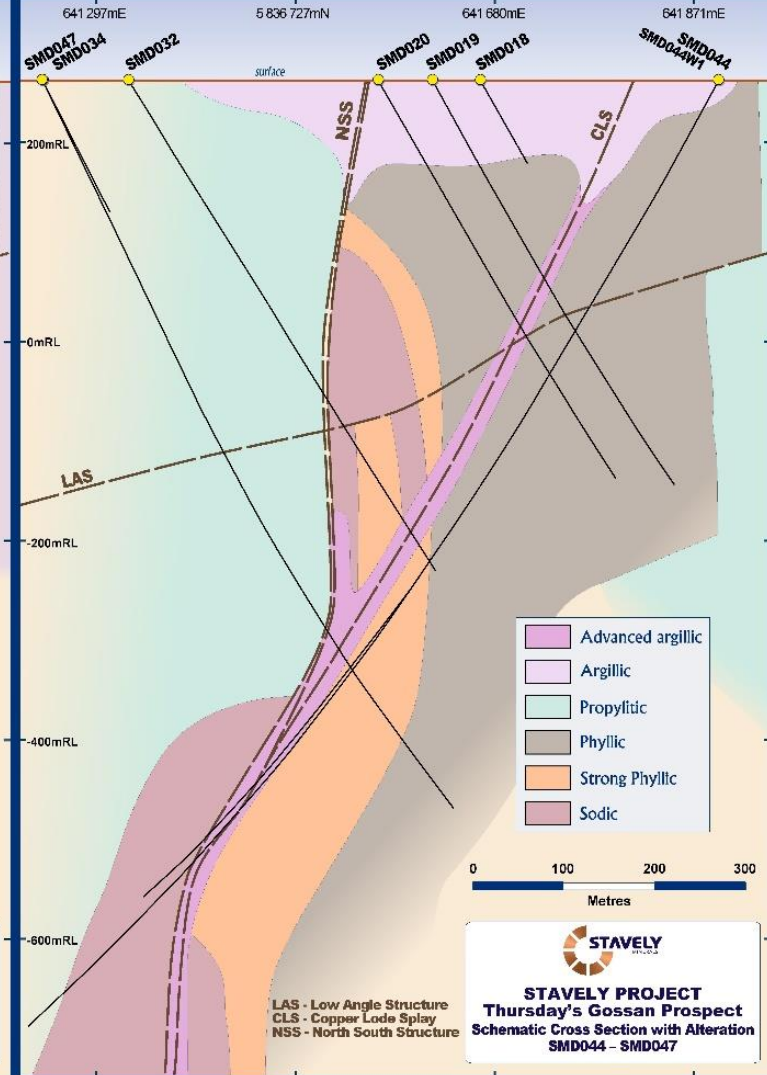
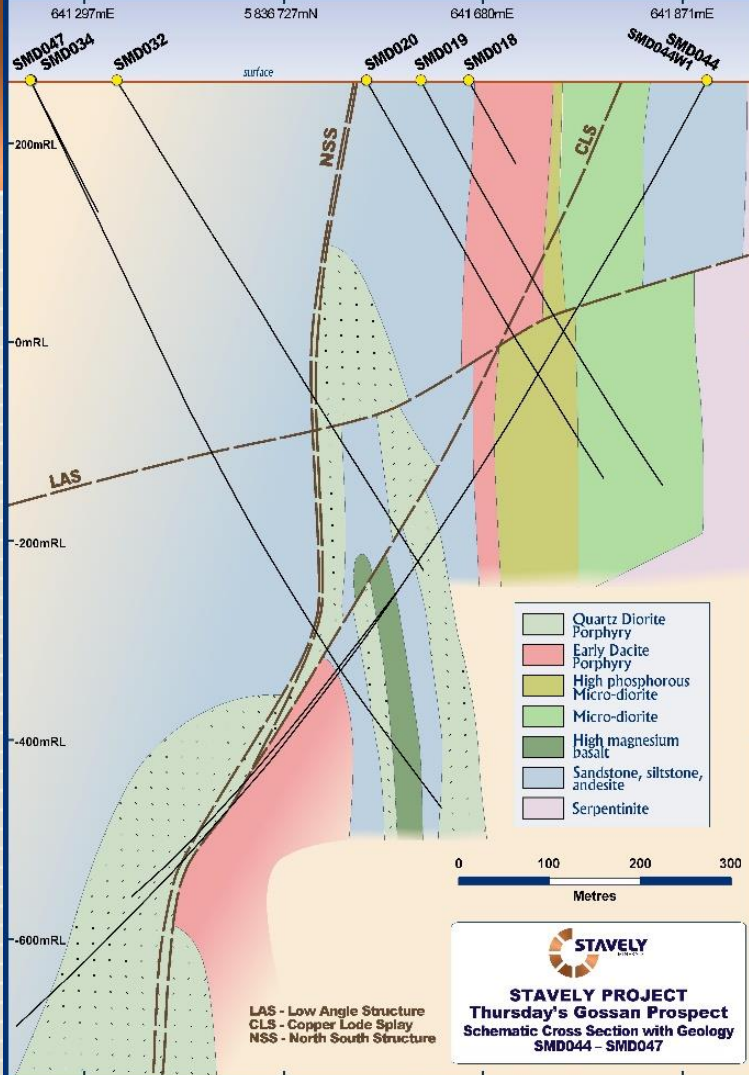
Sulphides are zoned from arsenical copper sulphides typical of high-sulphidation mineralisation through intermediate sulphidation to low sulphidation. Gold has an affinity with the distribution of bornite.

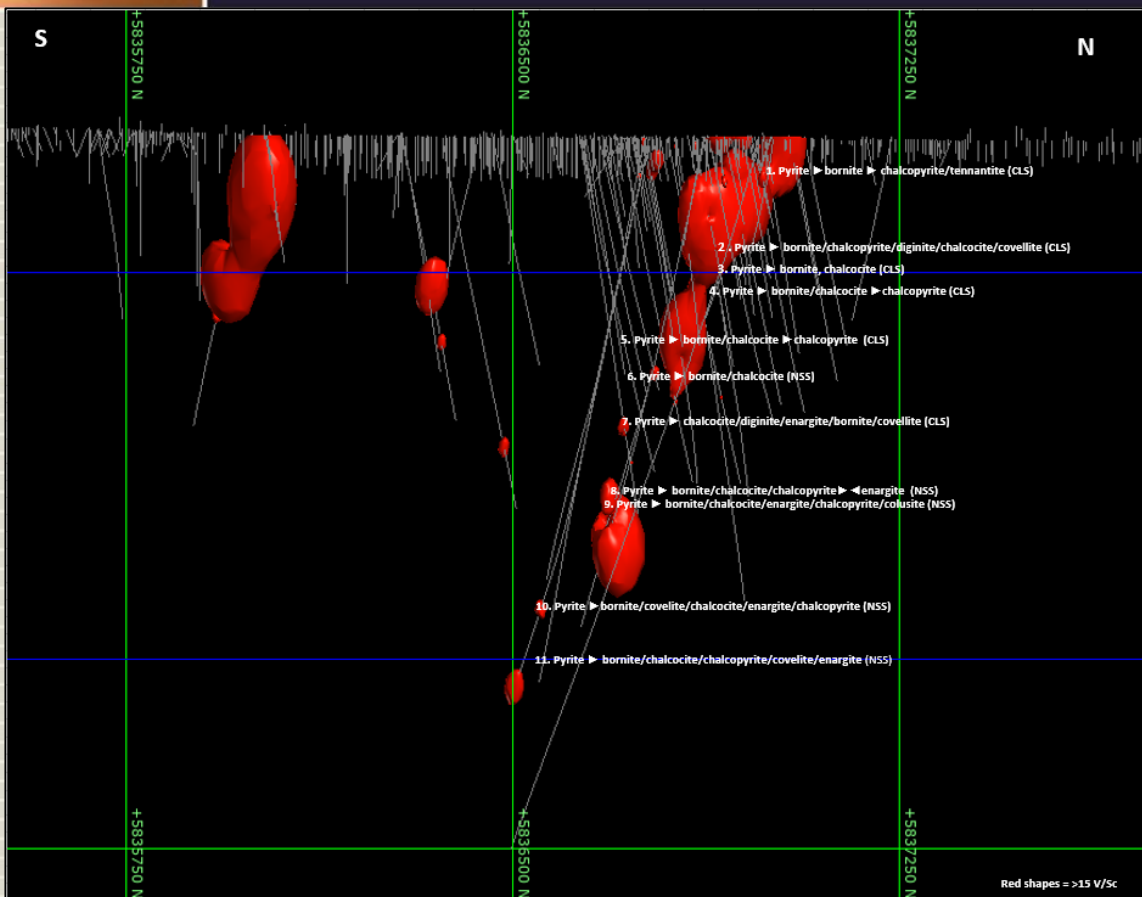
BUTTE MONTANA COMPOSITE PLAN / SECTION



Bute Montana sulphide zonation

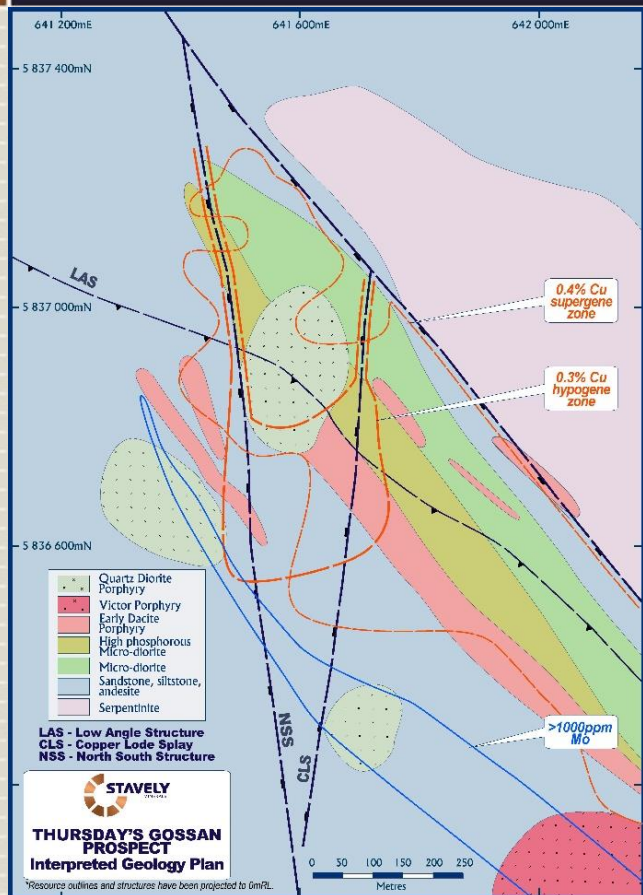
Sulphides are zoned from arsenical copper sulphides typical of high-sulphidation mineralisation through intermediate sulphidation to low sulphidation. Gold has an affinity with the distribution of bornite.





Sulphide zonation

- Early massive pyrite then brecciated and filled with later copper sulphides.
- Sulphides are zoned from deeper arsenical copper sulphides typical of high-sulphidation mineralisation through intermediate sulphidation to low sulphidation.
- Gold has an affinity with the distribution of bornite.



Structural control to high grade copper ± gold and silver mineralisation

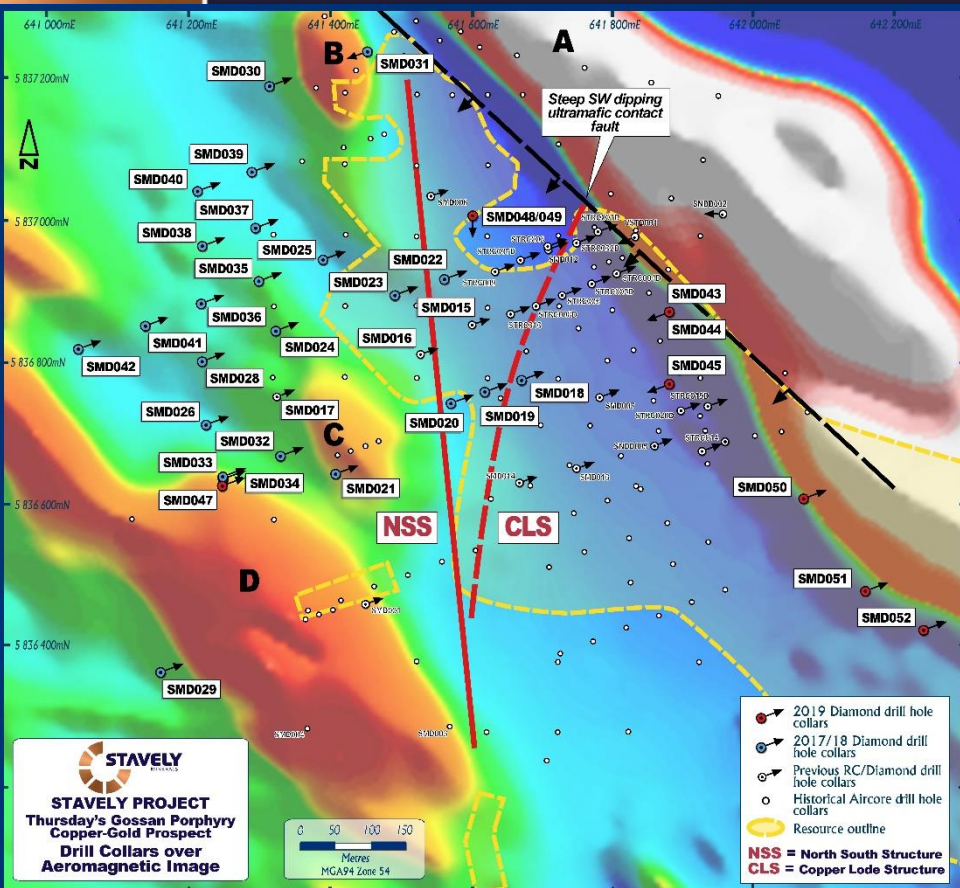
- Three major structures (that we know of...) -
 - The north-south structure (NSS)
 - The copper lode splay (CLS)
 - The ultramafic contact fault (UCF)

THURSDAY'S GOSSAN

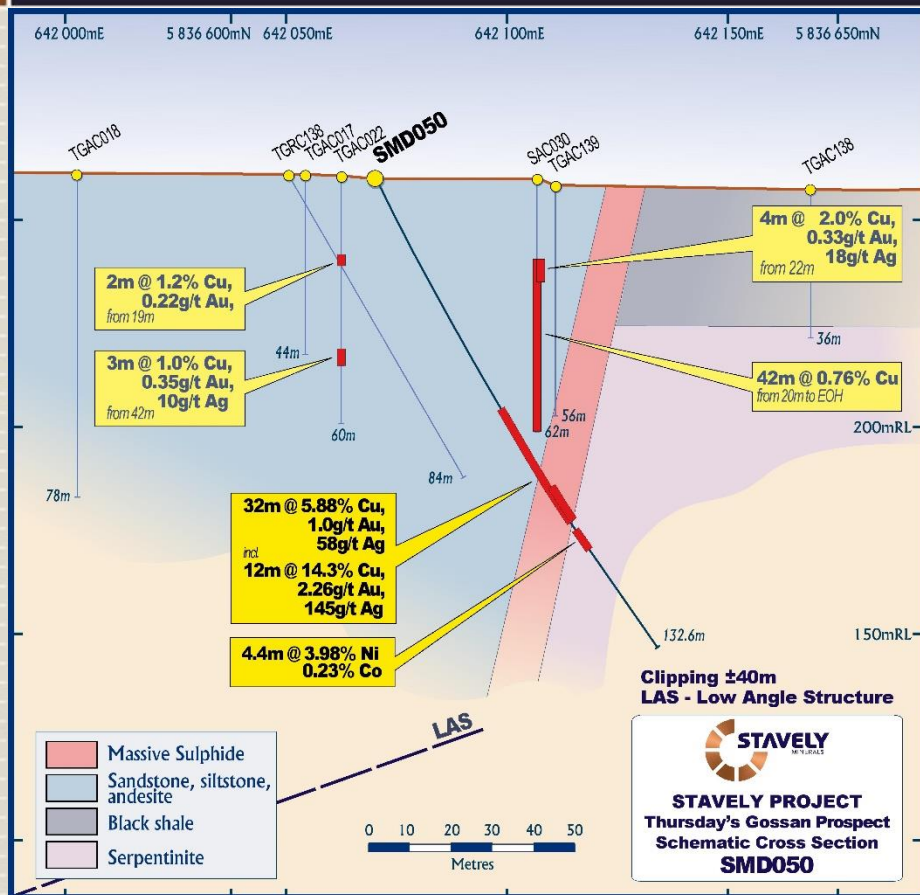


Structural control to high grade copper-gold-silver mineralisation

- Three major structures (that we know of...) -
 - The north-south structure (NSS)
 - The copper lode splay (CLS)
 - The ultramafic contact fault (UCF)



THURSDAY'S GOSSAN



Extremely high grades on the ultramafic contact

- The ultramafic has been serpentinised during metamorphism
- Abundant magnetite – possible reaction with fluids enhancing grade
- Low pH – dissolves the serpentinite and deposits nickel and cobalt



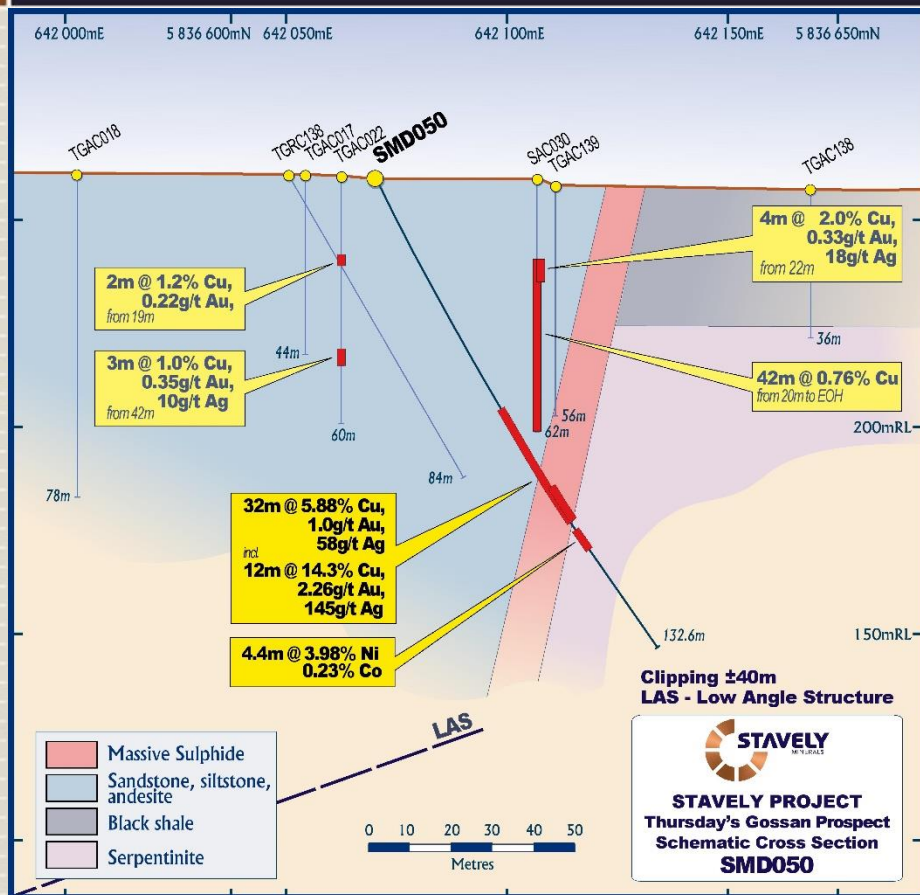
SMD050 **(BTW it only took us 50** **drill holes to get here...)**

- 32m at 5.88% copper, 1.00g/t gold and 58g/t silver, from 62m drill depth including
 - 12m at 14.3% copper, 2.26g/t gold and 145g/t silver from 82m, including
 - 2m at 40% copper, 3.00g/t gold and 517g/t silver

Surprisingly, drill hole SMD050 also intersected:

- 4.4m at 3.98% nickel, 0.23% cobalt and >1% chrome

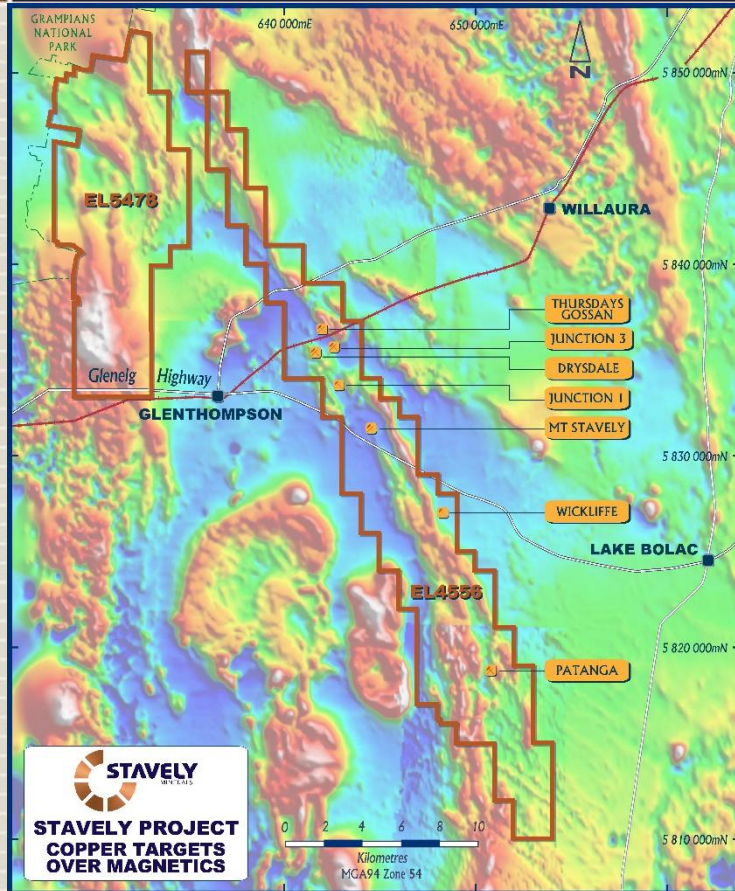
THURSDAY'S GOSSAN



Extremely high grades on the ultramafic contact

- The ultramafic has been serpentinised during metamorphism
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OTHER OPPORTUNITIES - JUNCTION 1



Aircore hole TGAC078

- 57m at 2.43% copper and 22g/t silver to EoH
- 6m at 0.16g/t gold



Conclusion

TAKE AWAY MESSAGES



1. Stavely has demonstrated that there are multiple porphyry phases at Thursday's Gossan
2. Hosts structurally-controlled high-grade lode-style copper-gold-silver mineralisation similar to Magma, Arizona and Butte, Montana
3. Lots of 'room to move' – early days despite 40-year exploration history
4. Likely to be driven by a late stage porphyry yet to be seen – it's still out there

TIPS FOR SUCCESS



1. Hypothesise, Drill, Observe, Adapt
2. Build a diverse team – its an impediment to progress if all are thinking the same way
3. Choose you consultants carefully, get them involved early and bring them along with you
4. Collect your data systematically and use all the relevant tools available to you

Thanks to Dr(s) Greg Corbett,
Scott Halley and Paul Ashley

Thank You

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