Golden Cross Resources
ASX:GCR

IIR's 8th Annual Mining NSW Conference
Orange 26 – 27 August 2014

Corporate Directory

Board of Directors

Steve Gemell	Chairman
Kim Stanton-Cook	Managing Director
Li Xiaoming	Non Executive Director
Ian Buchhorn	Non Executive Director
Suzanne Qiu	Non Executive Director
Jingmin Qian	Non Executive Director
Li Yan	Alternate Director for Mr Li

Company Secretary
Simon Lennon

Exploration Manager
Bret Ferris

Issued Share Capital

Golden Cross Resources Ltd (GCR) has 1,889 million ordinary shares listed on the ASX with a market capitalisation of $11 million. GCR is seeking shareholder support for a share capital consolidation via a 1 for 20 conversion. GCR has $2.1 million in cash.

Registered Office
Golden Cross Resources Ltd
22 Edgeworth David Avenue
Hornsby NSW 2077
Phone: (61 2) 9472 3500
Fax: (61 2) 9482 8488

Golden Cross Resources has seven directors, four full-time employees, three part-time employees and retains geological, mining and metallurgical consultants as required.

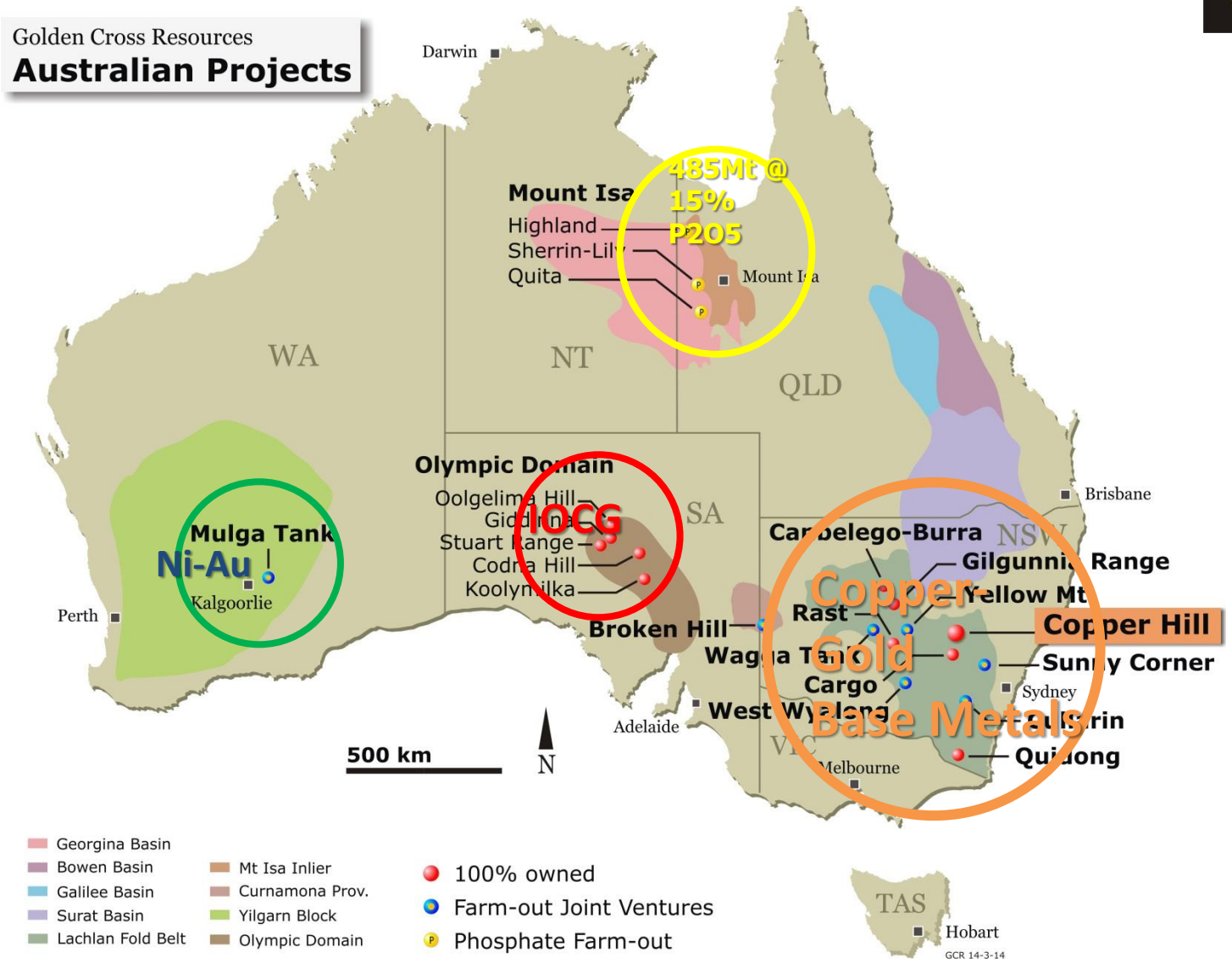
DISCLAIMER & COMPETENT PERSON STATEMENT

- This material contains certain forecasts and forward-looking information, including information about possible or assumed future performance, exploration results, resources or potential growth of Golden Cross Resources Ltd, industry growth or other trend projections.
- Such forecasts and information are not a guarantee of future performance and involve unknown risks and uncertainties, as well as other factors, many of which are beyond the control of Golden Cross Resources Ltd.
- Actual results and developments may differ materially from those expressed or implied by these forward-looking statements, depending on a variety of factors.
- Nothing in this material should be construed as the solicitation of an offer to buy or sell securities.
- The information in this presentation that relates to Exploration Results is based on information compiled by Kim Stanton-Cook, who is a member of the Australian Institute of Geoscientists, is a full-time employee of GCR, and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Kim consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

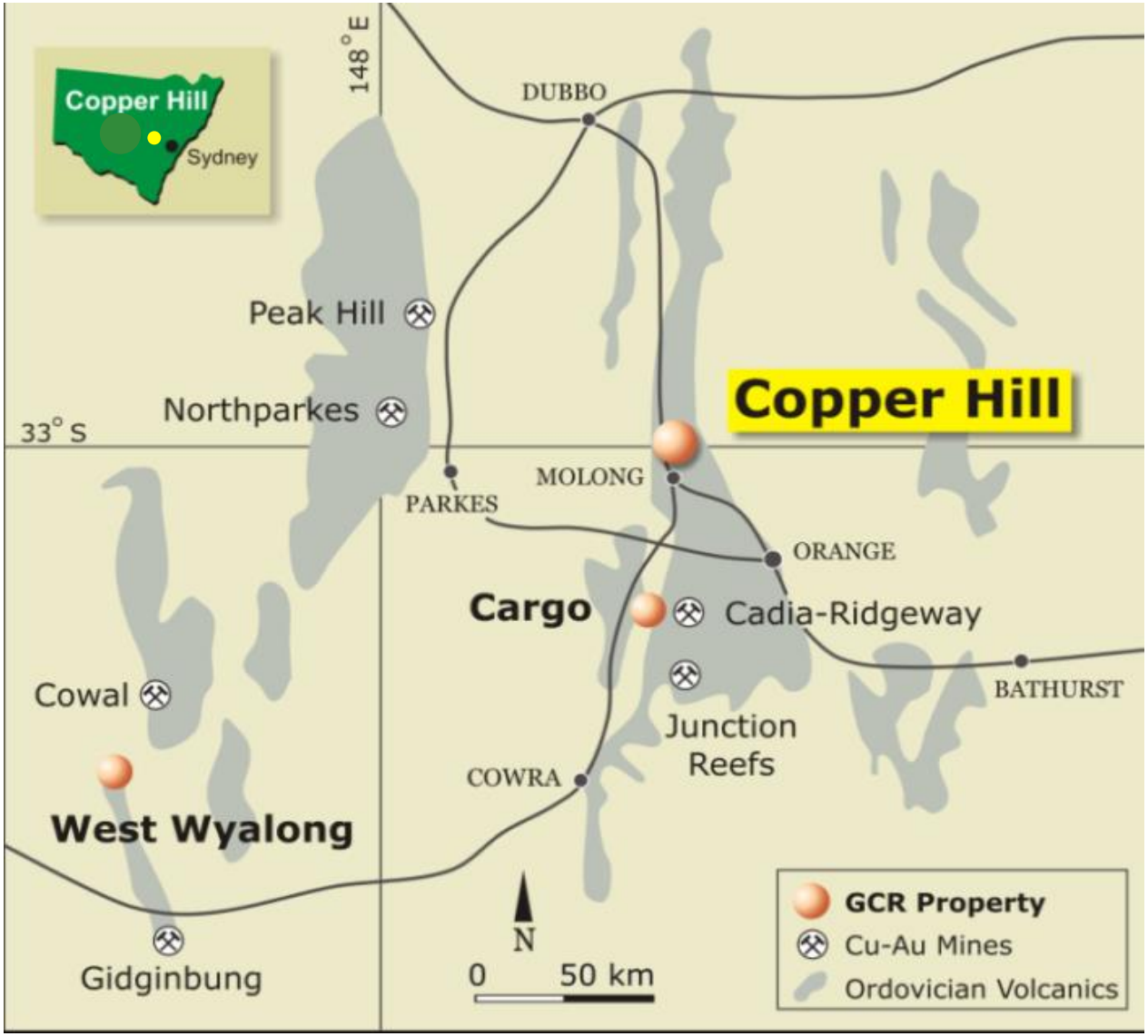
26 August 2014

Golden Cross Resources

Australian Projects

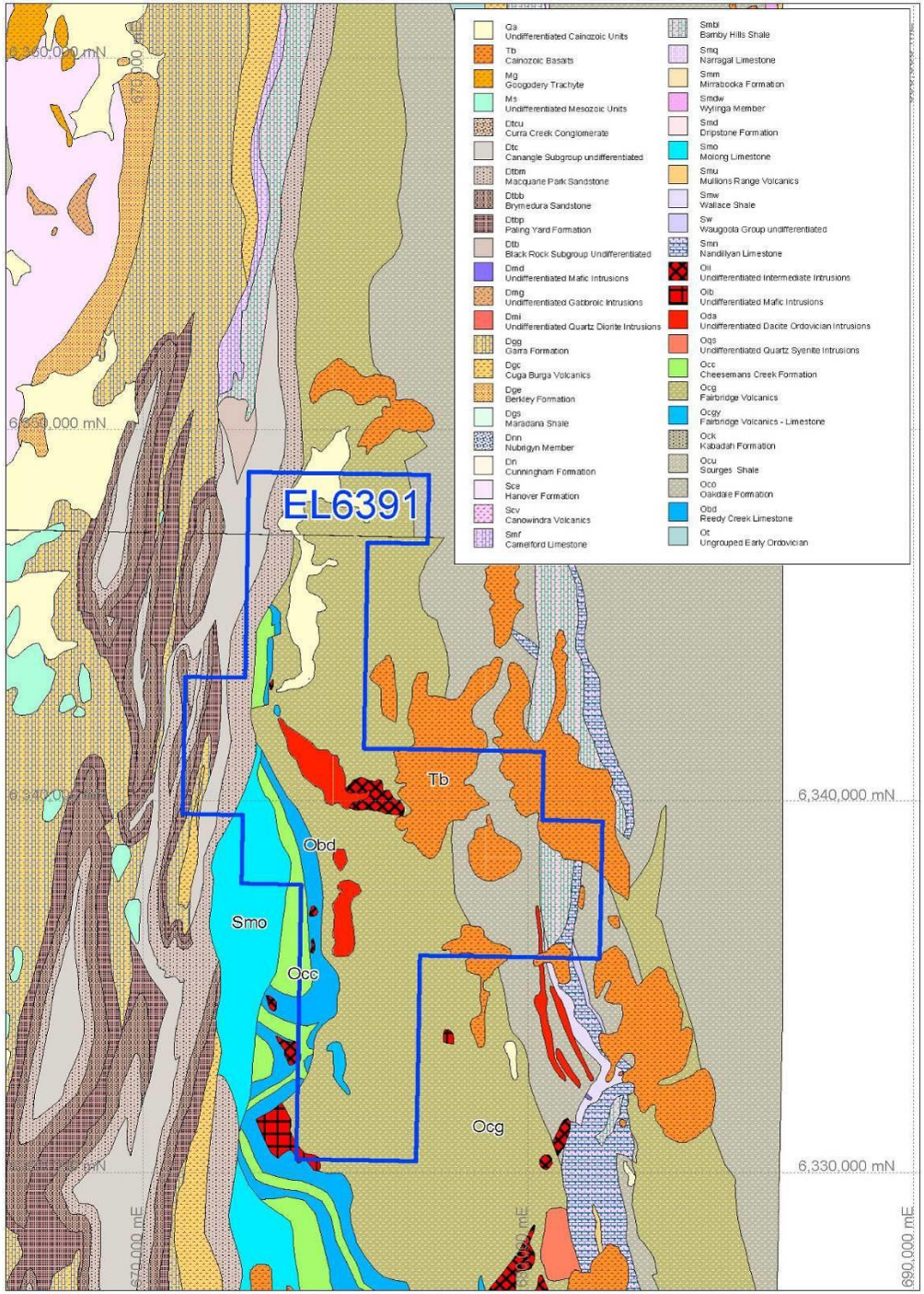


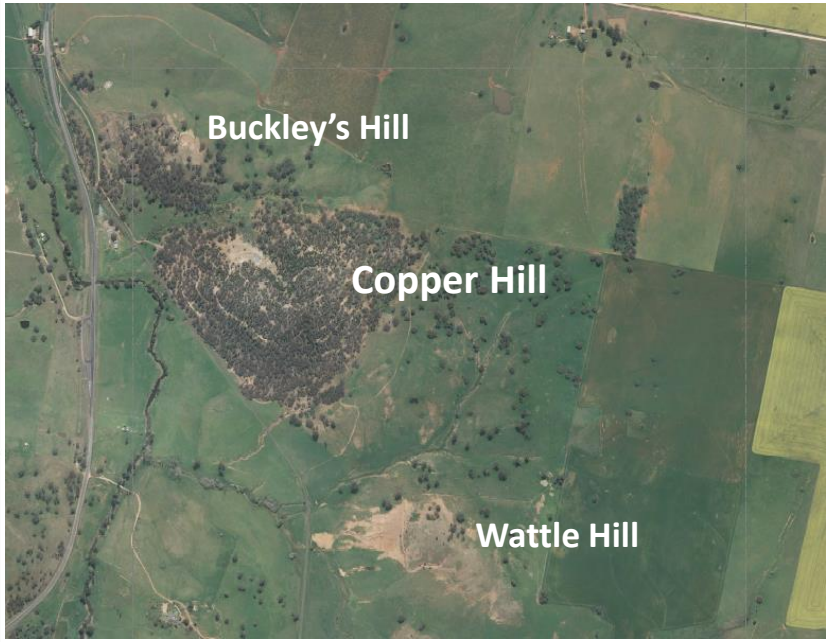
Molong Project - Copper Hill

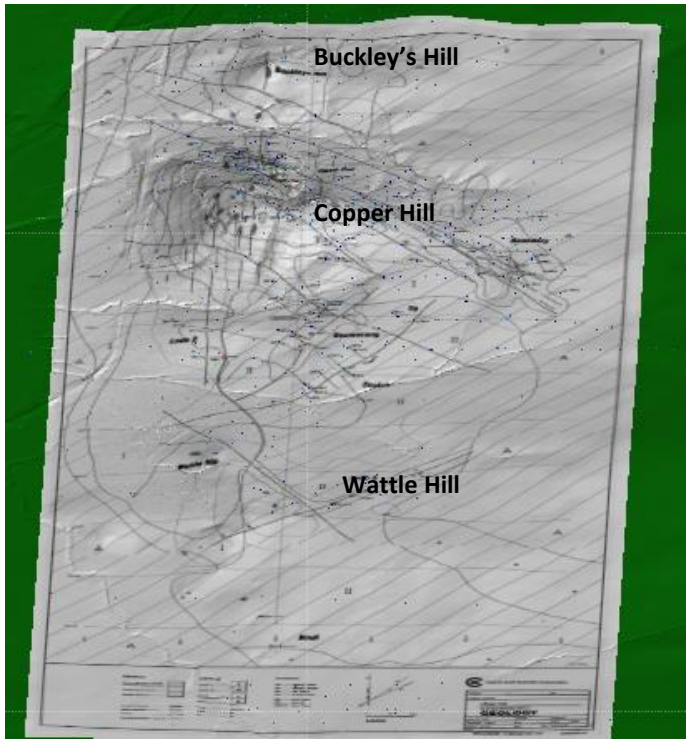


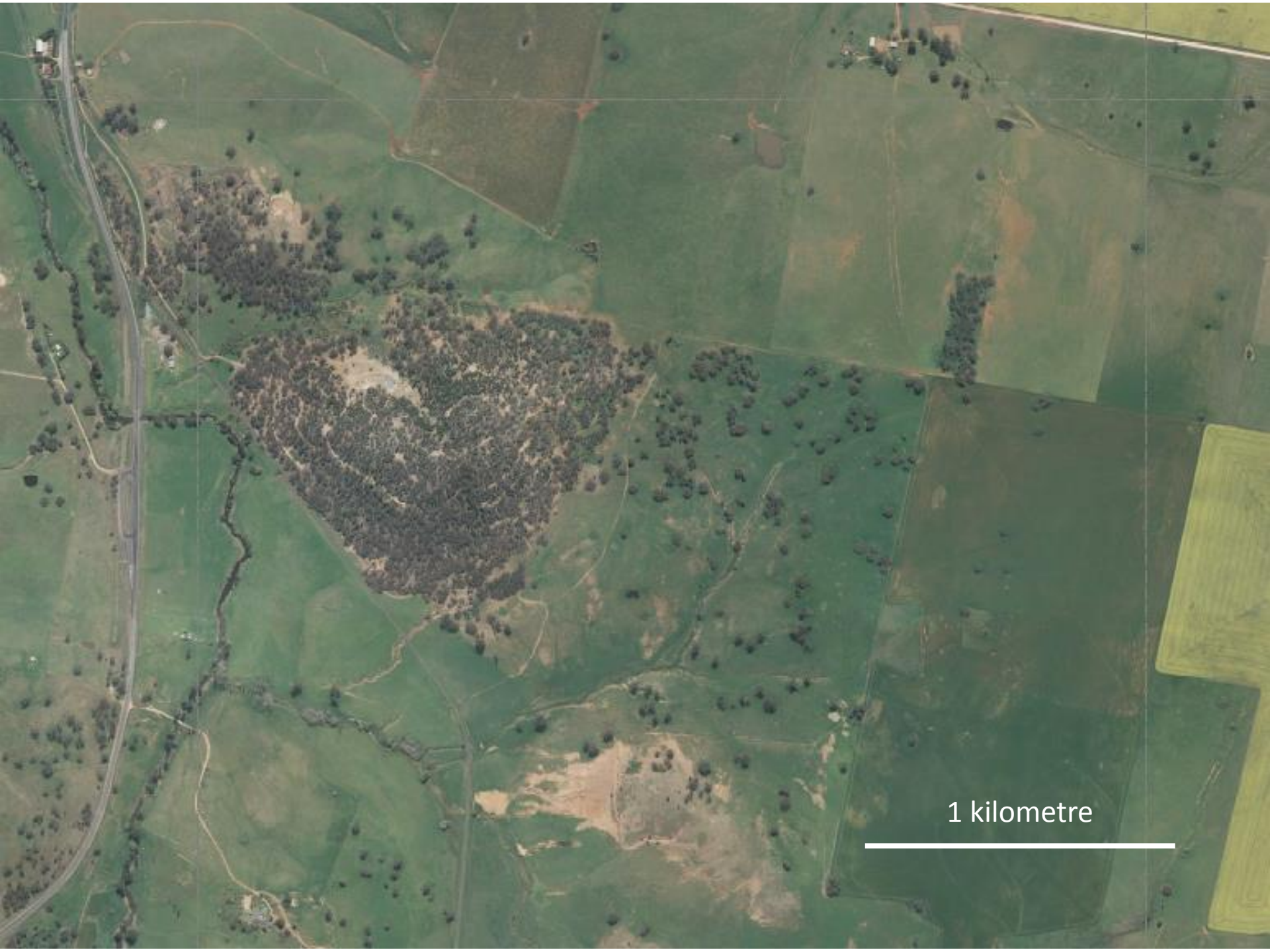
Copper Hill, within the Molong Project

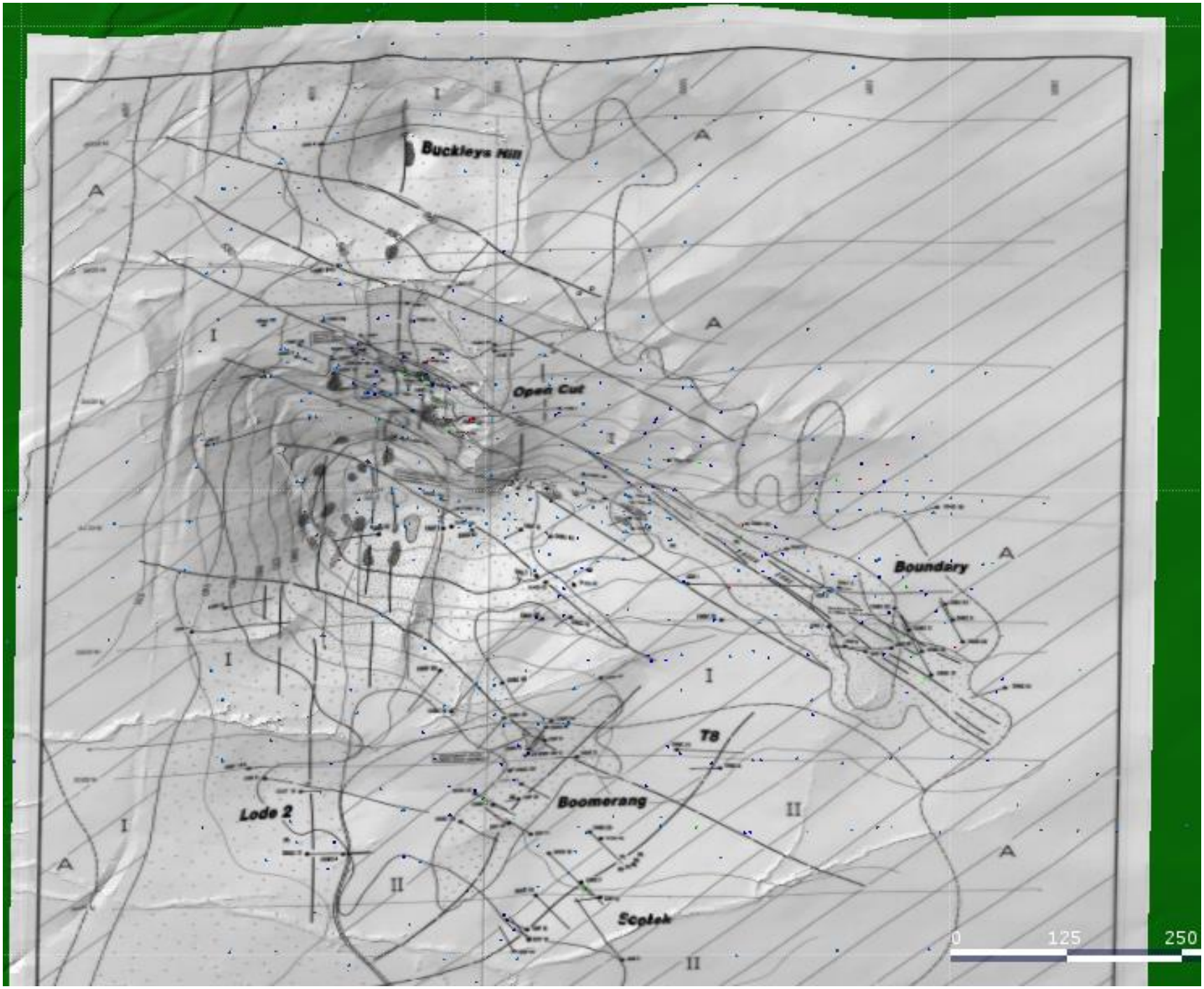
- **JORC 2004: Total Geological Resource: 215 million tonnes at 0.3% copper and 0.24 g/t gold**
- **JORC 2004: Constrained Resource: 155 million tonnes at 0.33% copper and 0.27 g/t gold containing:**
- **493,000 tonnes of copper and**
- **1.33 million ounces of gold**
- **Copper and gold recoveries of 83% and 70% have been achieved to produce a copper concentrate containing 24% copper and 24g/t gold**
- **GCR has examined the economics of a range of throughput options from 5 to 15 Mtpa**
- **7 to 8 Mtpa delivers optimum outcomes**
- **Future Extensions:** More tonnes and higher grades are required to improve the economics at currently bankable copper and gold prices.
- **More Exploration – Drilling:** Target zones within and along strike of Copper Hill are being drilled.
- **5000 metres of core drilling underway**.


Qa
Undifferentiated Cainozoic Units
Tb
Cainozoic Basalts
Mg
Googodery Trachyte
Ms
Undifferentiated Mesozoic Units
Dtcu
Curra Creek Conglomerate
Dtc
Canangle Subgroup undifferentiated
Dtbm
Macquarie Park Sandstone
Dtbb
Brymedura Sandstone
Dtbp
Paling Yard Formation
Dtb
Black Rock Subgroup Undifferentiated
Dmd
Undifferentiated Mafic Intrusions
Dmg
Undifferentiated Gabbroic Intrusions
Dmi
Undifferentiated Quartz Diorite Intrusions
Dgg
Gairo Formation
Dgc
Cuga Burga Volcanics
Dge
Berkley Formation
Dgs
Maradana Shale
Dnn
Nubrigyn Member
Dn
Cunningham Formation
Sce
Hanover Formation
Scv
Canowindra Volcanics
Smf
Camelford Limestone
Smbl
Bamby Hills Shale
Smq
Narragal Limestone
Smm
Mirrabooka Formation
Smdw
Wyringa Member
Smd
Dripstone Formation
Smo
Moiong Limestone
Smu
Mullions Range Volcanics
Smw
Wallace Shale
Sw
Waugoola Group undifferentiated
Smn
Nandillyan Limestone
Oii
Undifferentiated Intermediate Intrusions
Oib
Undifferentiated Mafic Intrusions
Oda
Undifferentiated Dacite Ordovician Intrusions
Oqs
Undifferentiated Quartz Syenite Intrusions
Occ
Cheesemans Creek Formation
Ocg
Fairbridge Volcanics
Ocgy
Fairbridge Volcanics - Limestone
Ock
Kabadah Formation
Ocu
Sourges Shale
Oco
Oakdale Formation
Obd
Reedy Creek Limestone
Ot
Ungrouped Early Ordovician
EL6391
Tb
Obd
Smo
Occ
Ocg
6,340,000 mN
6,330,000 mN
690,000 mE


Buckley's Hill
Copper Hill
Wattle Hill


Buckley's Hill
Copper Hill
Wattle Hill


1 kilometre


Buckleys Hill
Open Cut
Boundary
TB
Boomerang
Lode 2
Scotch
0
125
250

Heron Resources Invests

- Ian Buchhorn, formerly Managing Director of Heron Resources (HRR)and soon to be an executive director of the new entity created by the merger between Heron and TriAusMin, became a director of Golden Cross in early 2014.
- Ian Buchhorn has been enthusiastic about Copper Hill for many years and following initial merger discussions between GCR and HRR throughout 2013, and after GCR had raised $750,000 in a late 2013 rights issue, HRR was able to gain a 19.9% interest in GCR by way of a placement of $1.8 million in early 2014.
- With the Heron capital injection, we will see what is happening at depth, and determine whether some Northparkes or Cadia-Ridgeway-style geology exists below the currently defined resource.

Heron Resources and HQ Mining, working together to bring Copper Hill forward

Drilling has commenced

$1.5 million, 5000 metre, Core Drilling Program

The injection of funds to GCR from its new 19.9% shareholder Heron Resources has enabled GCR to embark on a major new drilling program to discover buried porphyry intrusions and extensions to known mineralisation.

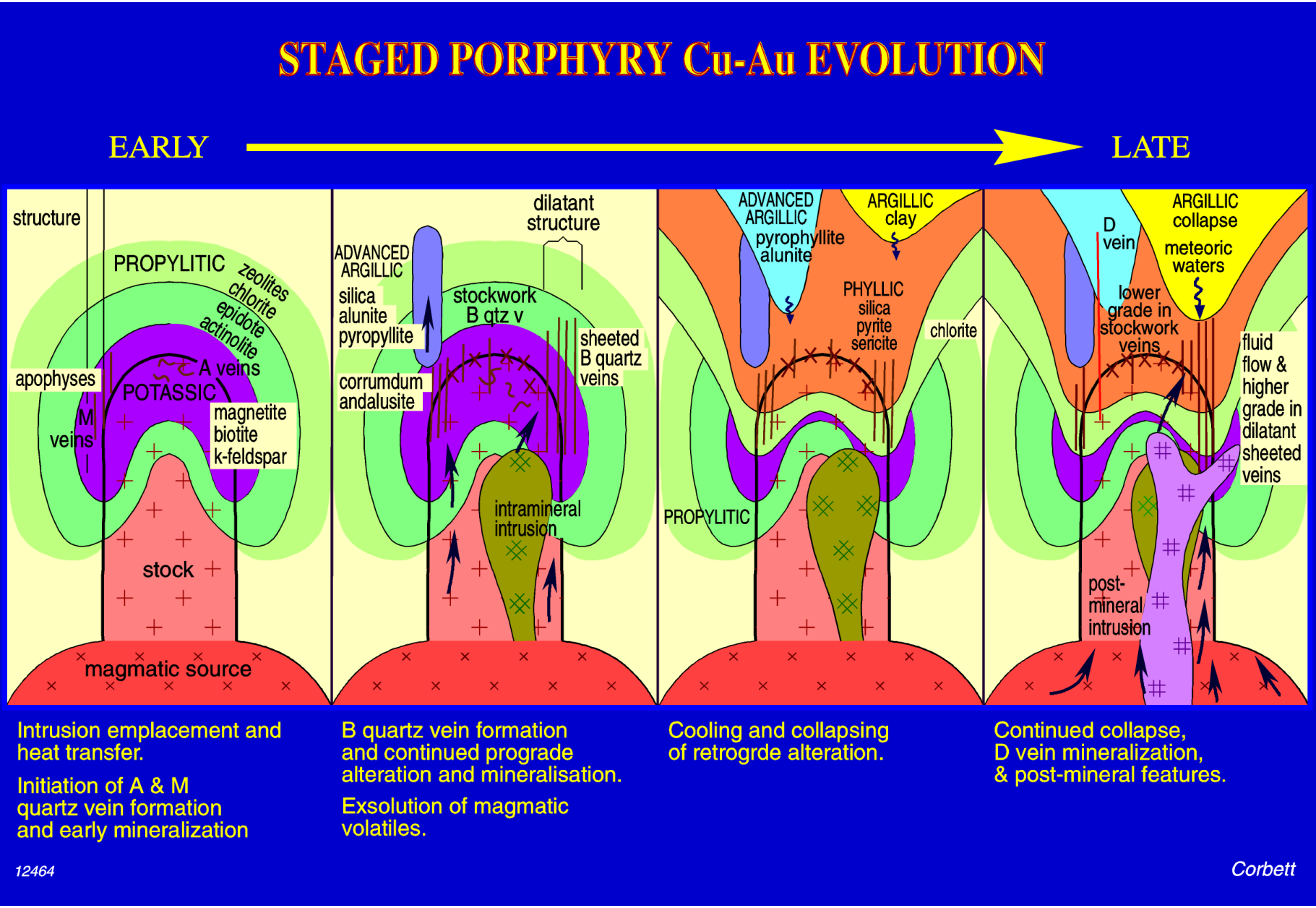
The program is based on previous drilling results and recent geological reviews by Corbett-Menzies Consulting which has provided encouraging new insights into the potential for expanding the Copper Hill and Buckley's Hill deposits.

The first hole GCHD469 was drilled on section 6150N at Buckley's Hill, which lies 500 metres northwest from Copper Hill. Buckley's Hill mineralisation appears to be at a different porphyry system level to Copper Hill.

Buckley's Hill maintains higher grades of copper and gold at depth with substantial intersections of 0.4% to 0.6% copper with supporting gold grades of 0.2 g/t to 0.3g/t.

Mineralised breccia fragments, carried from below, or along strike, from a proximal, buried intrusion were identified in GCHD469

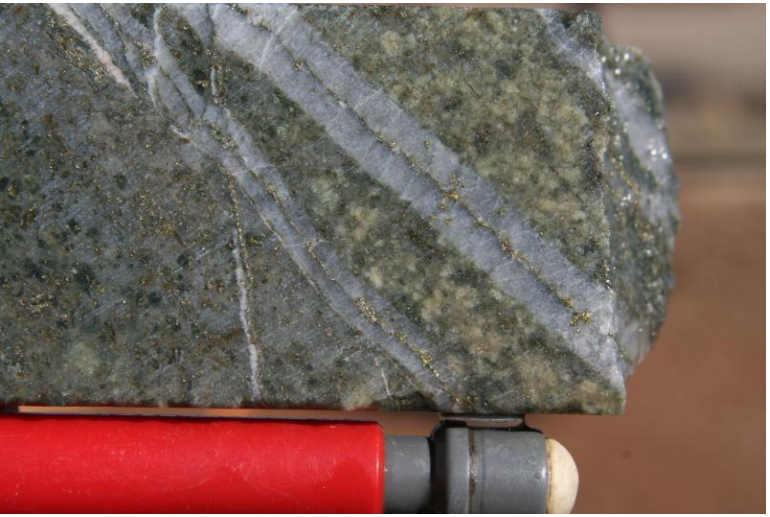
Greg Corbett's Evolving Porphyries



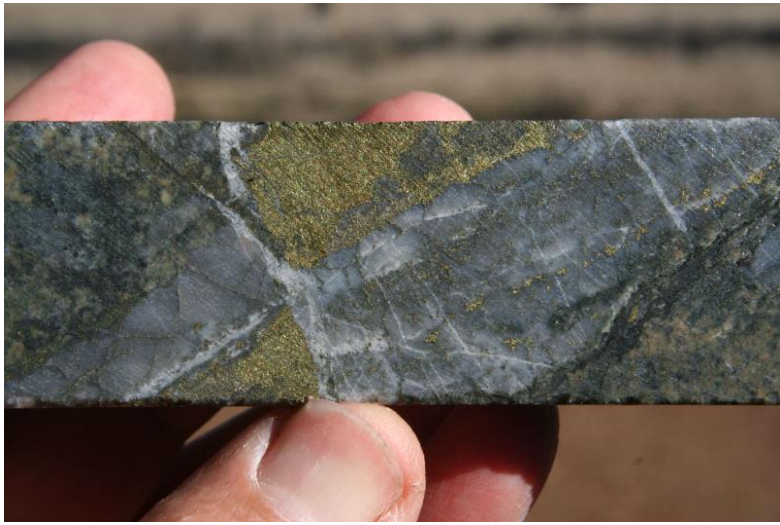
Greg Corbett photographs

Sheeted laminated quartz-magnetite-sulphide (M style) veins within intrusion F - DDH107, 257 m.

Stockwork B veins in intrusion F DDH 107 214m

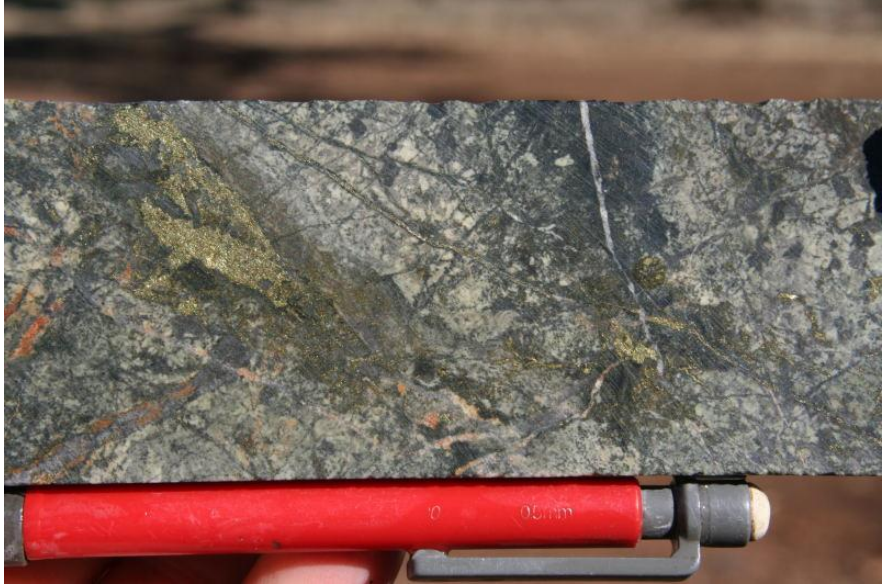


Sheeted B veins in sericite altered intrusion F. Note the central terminations with sulphide fill - DDH 64, 132m.



C vein style sulphides overprinting laminated quartz vein - DDH 64 139m

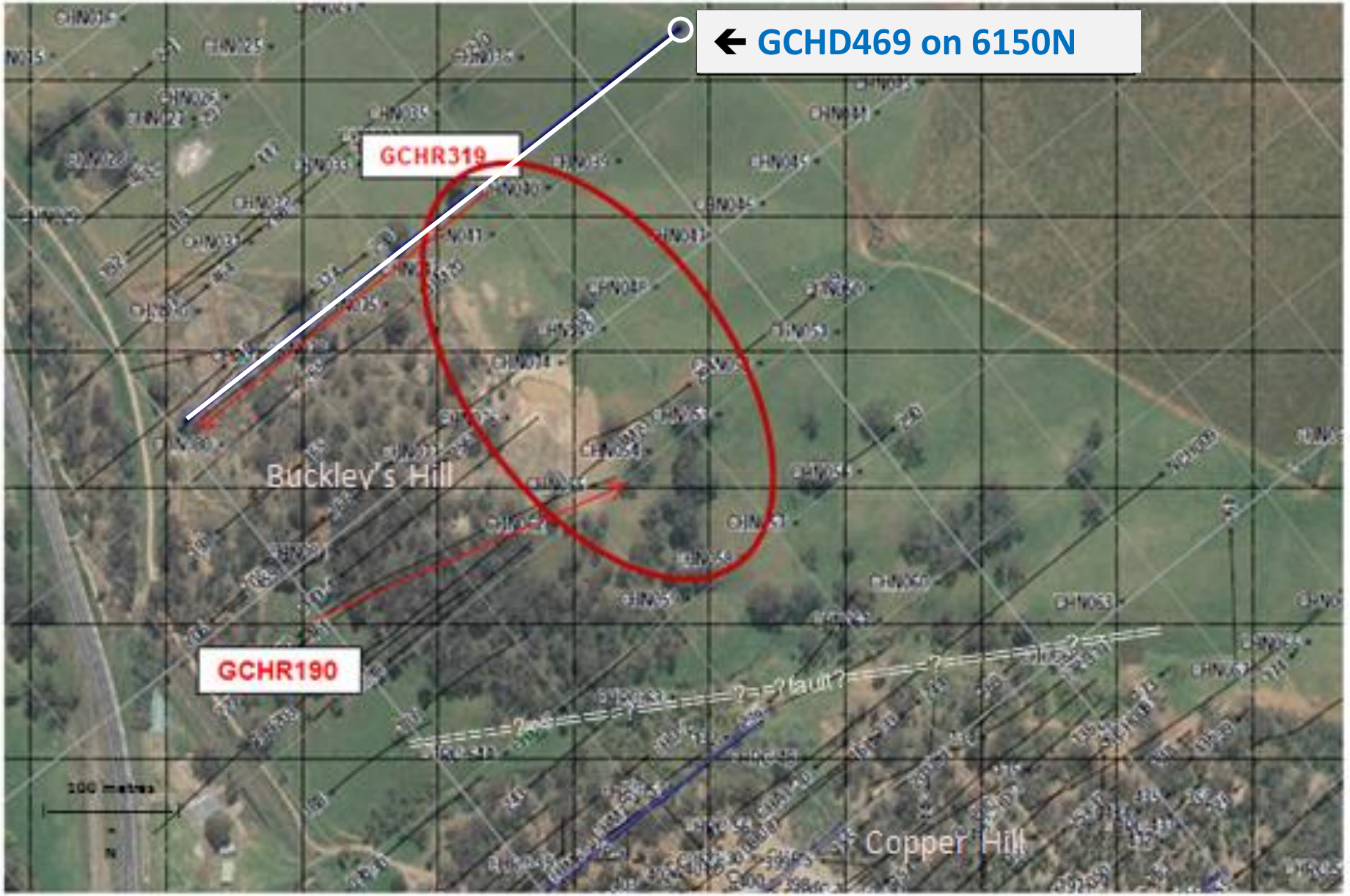
Later sulphides overprint laminated and B veins – DDH 64 130m



Early chlorite-magnetite alteration cut by later sulphides of a C vein style – DDH 74 248m.

Sulphide fill breccia of a C vein type- DDH 107 232m.

Pyrite-rich D vein with later carbonate - DDH 74 245m



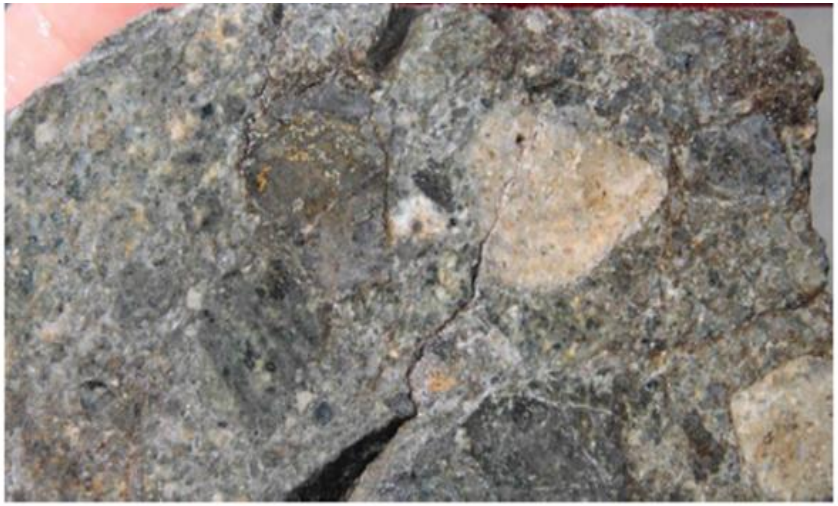
"Open Zone" between GCHR319 and GCHR190 and showing the trace (white) of the first hole of the new program on cross-section 6150N at Buckley's Hill and the postulated fault between Copper Hill and Buckley's Hill.

New prospect opening up

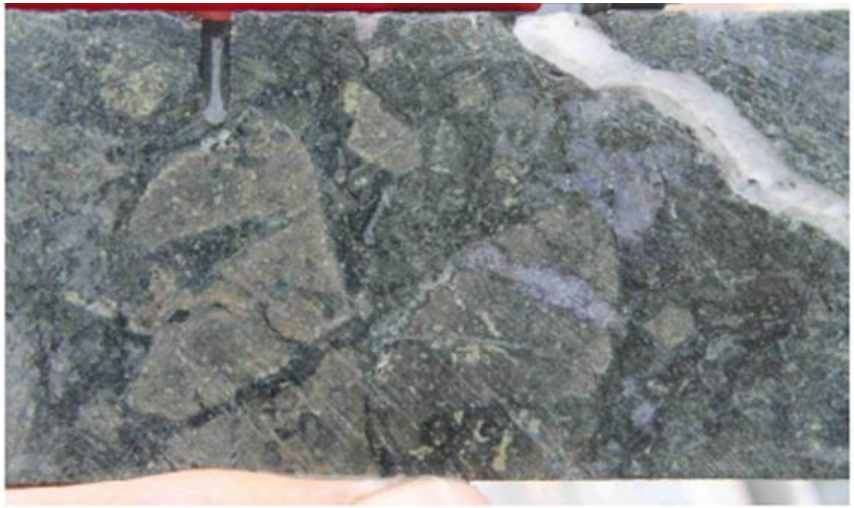
- GCHR190, some 250 metres south of GCHR319 and traversing sections 5950N to 5900N, also contains mineralised breccia fragments. This hole also maintains higher relative copper and gold grades at depth (e.g. 20 m @ 0.58% copper and 0.3g/t gold and 27m @ 0.43% copper and 0.23g/t gold within a 222 metre interval [20m to 244m] carrying 0.37% copper and 0.16g/t gold).

- The zone between cross sections 6150N and 5900N at Buckley's Hill has only been tested by shallow drilling. It provides another excellent target for the current program which will evolve as each hole is completed.

GCHD469 was completed at 894 metres and alteration, zones of brecciation with mineralised breccia clasts, abundant pyrite (potentially gold-bearing) and indications of copper mineralisation continued almost to end-of-hole.



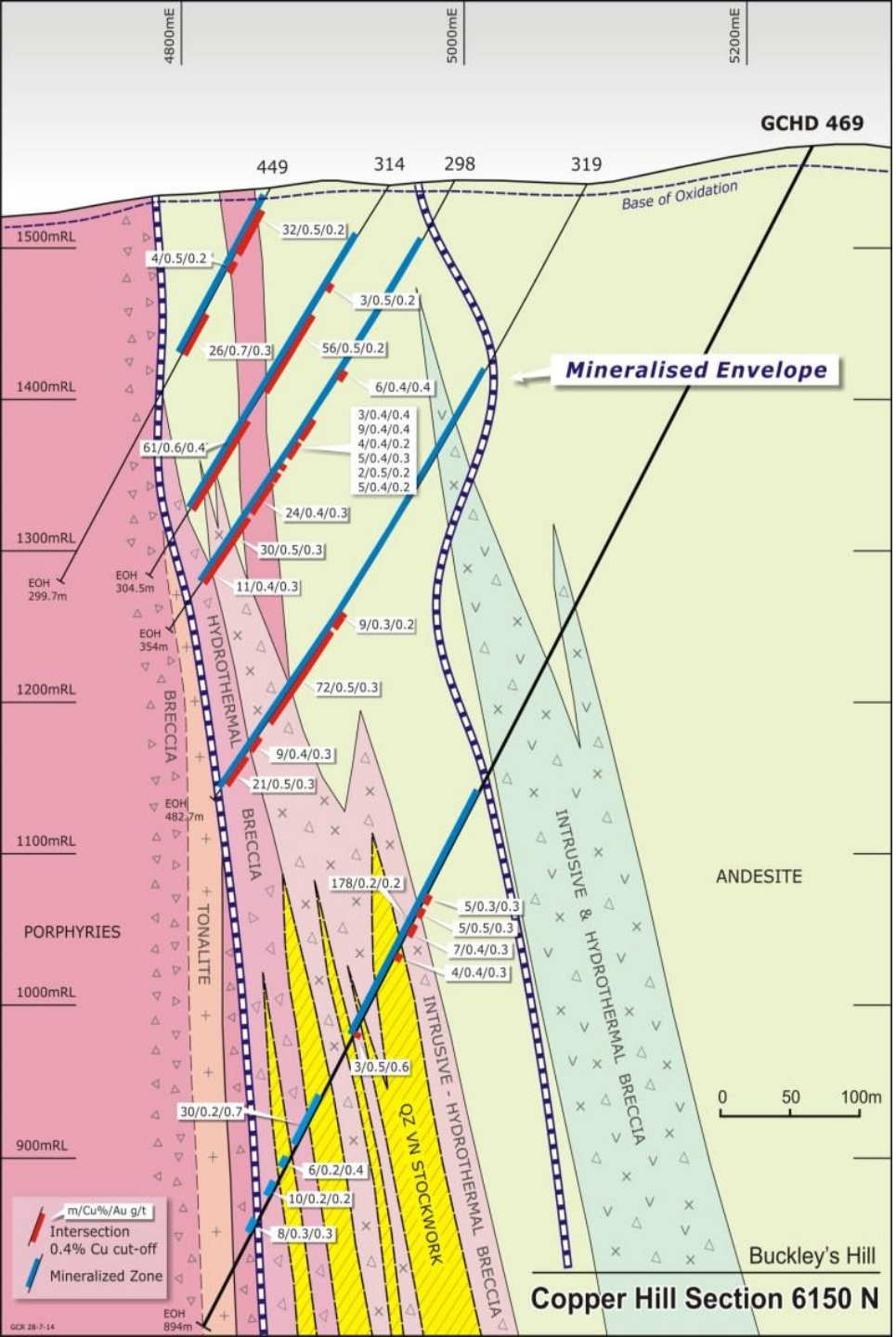
Magmatic hydrothermal breccia with a quartz-bornite clast and sericite alteration in the matrix. GCHR 319. 468.8m 0.48% copper and 0.15g/t gold



Magmatic hydrothermal breccia comprising K-feldspar alteration including vein-hosted clasts and magnetite altered matrix. GCHR190. 399.7m. 0.65% copper and 0.39 g/t gold.

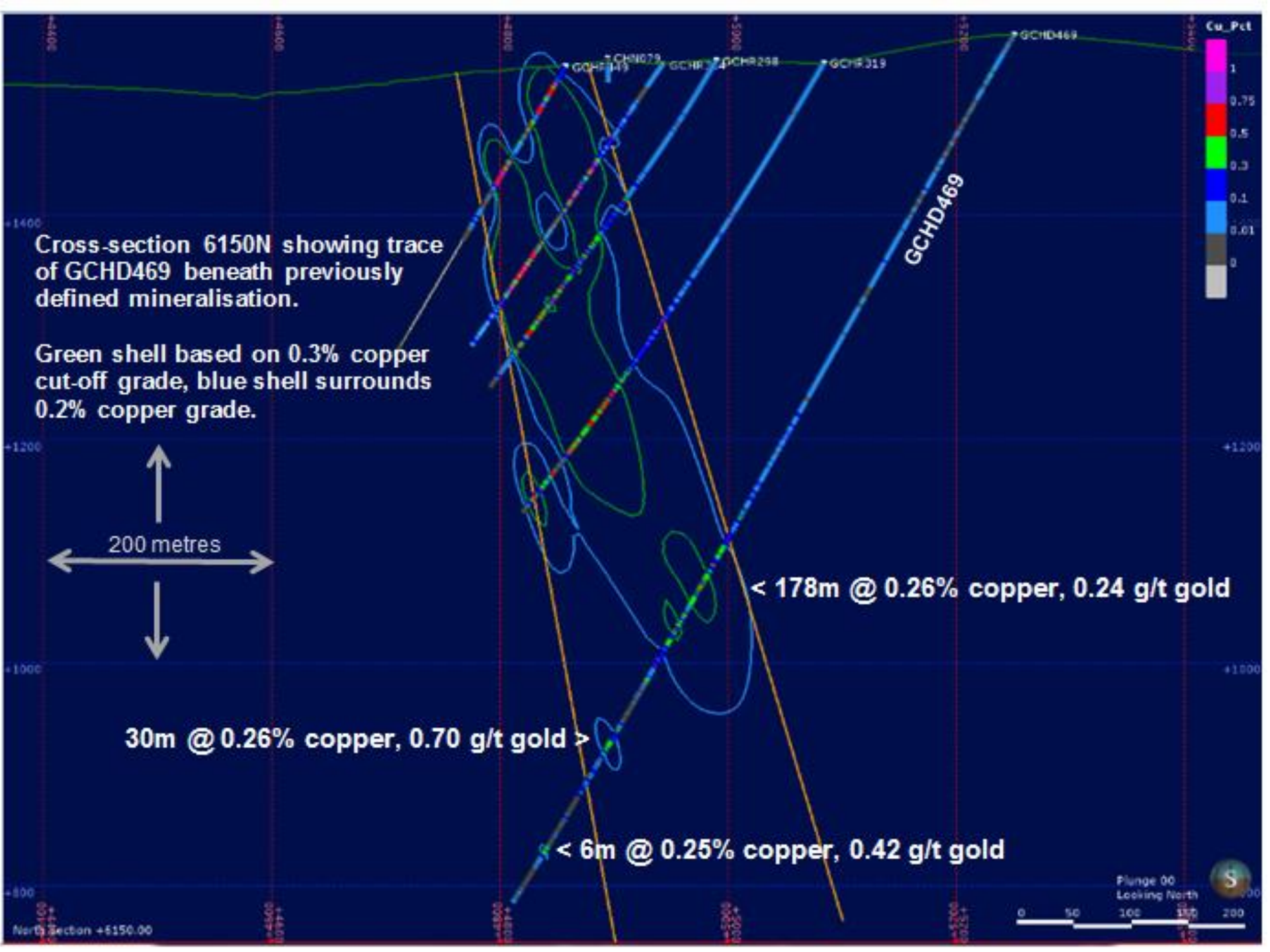
Assay Results for GCHD469 using 0.2% copper and 0.4% copper cut-off grades

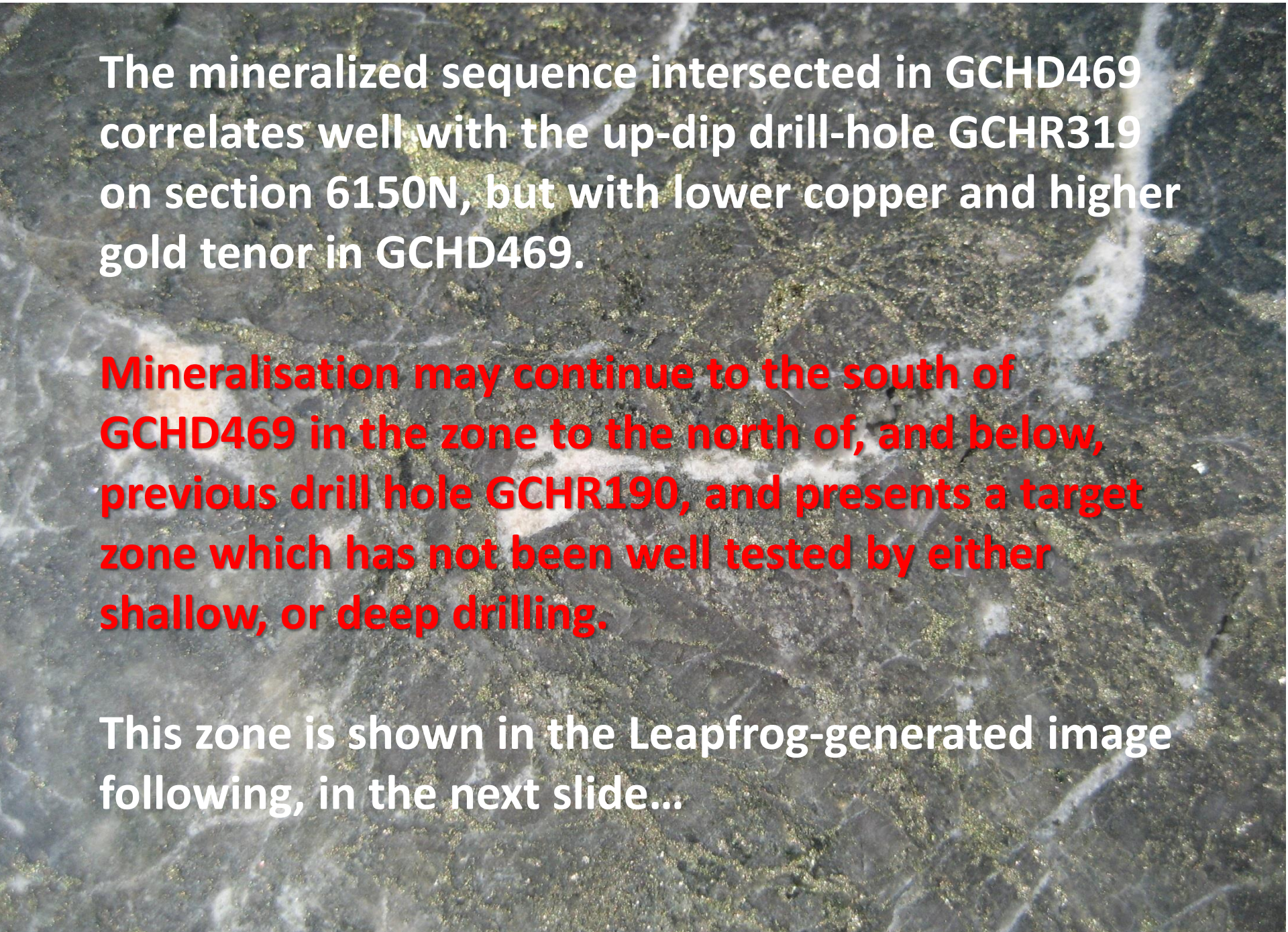
From (m)	To (m)	Interval (m)	Copper %	Gold g/t (ppm)
487	**665**	**178**	**0.26**	**0.24**
Including, at a 0.4% copper cut-off grade:				
527	530	3	0.45	0.55
555	560	5	0.35	0.29
565	570	5	0.53	0.30
578	585	7	0.41	0.32
602	606	4	0.39	0.30
662	665	3	0.49	0.62
713	**743**	**30**	**0.26**	**0.70**
754	**760**	**6**	**0.24**	**0.42**
771	**781**	**10**	**0.22**	**0.22**
836	**844**	**8**	**0.35**	**0.30**



GCHD469 targeted mineralisation at depth beneath Buckley's Hill, 750 metres northwest of Copper Hill. It is the deepest hole ever drilled beneath the Copper Hill system and has provided additional information on the nature of the Copper Hill intrusions at depth.

Abundant anhydrite veining, base metal-carbonate veining with pyrite and finely disseminated and veined chalcopyrite were observed from within the mineralised intervals. This porphyry-style mineralisation, along with the additional brecciated quartz-vein stockwork zones and the polymict hydrothermal breccia with higher grade gold zones indicates a porphyry source proximal to GCHD469.

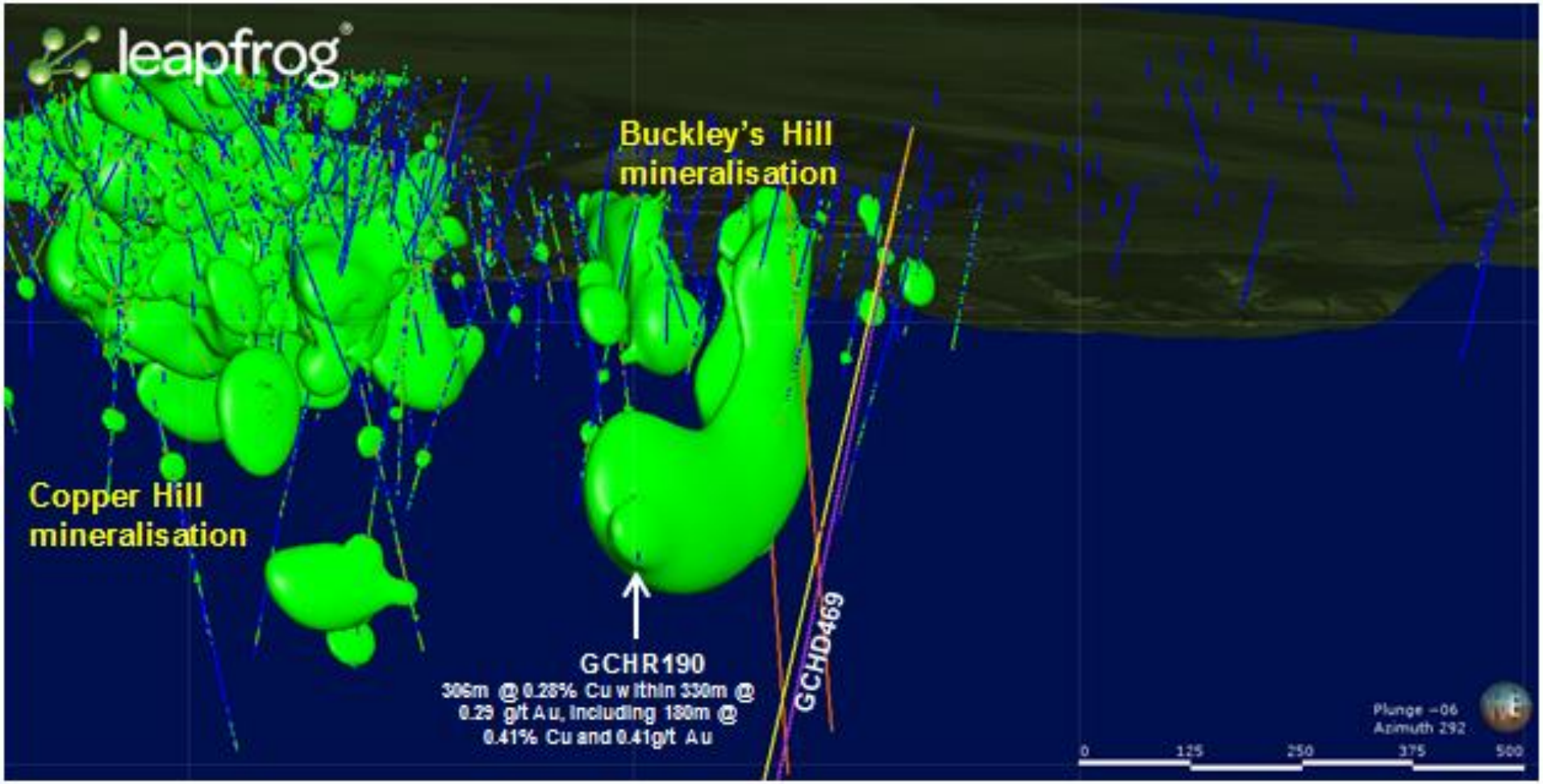

Cross-section 6150N showing trace of GCHD469 beneath previously defined mineralisation.
Green shell based on 0.3% copper cut-off grade, blue shell surrounds 0.2% copper grade.
200 metres
GCHD469
< 178m @ 0.26% copper, 0.24 g/t gold
30m @ 0.26% copper, 0.70 g/t gold >
< 6m @ 0.25% copper, 0.42 g/t gold
Cu_Pct
1
0.75
0.5
0.3
0.1
0.01
0
Plunge 00
Looking North
0
50
100
150
200
North Section +6150.00



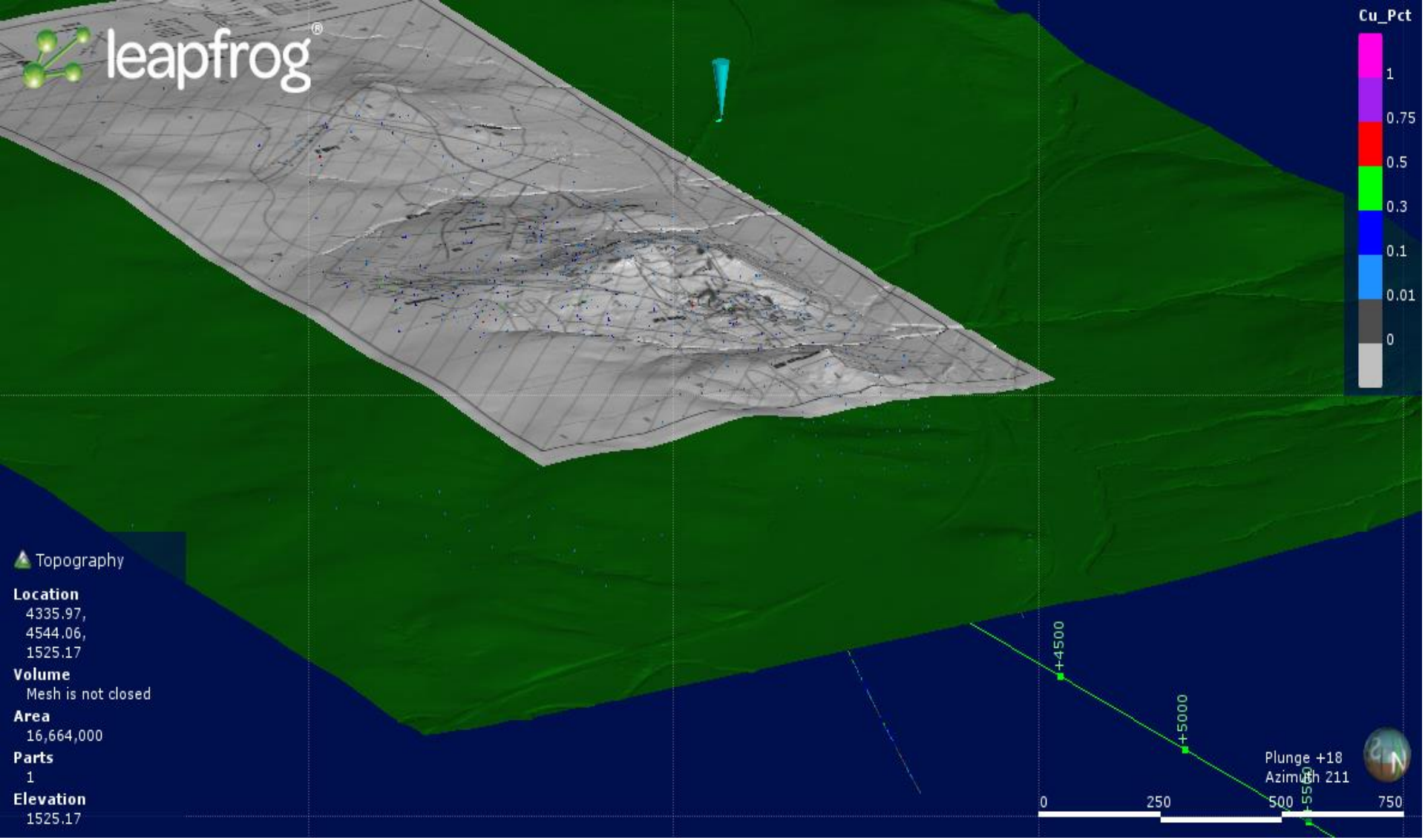
The mineralized sequence intersected in GCHD469 correlates well with the up-dip drill-hole GCHR319 on section 6150N, but with lower copper and higher gold tenor in GCHD469.

Mineralisation may continue to the south of GCHD469 in the zone to the north of, and below, previous drill hole GCHR190, and presents a target zone which has not been well tested by either shallow, or deep drilling.

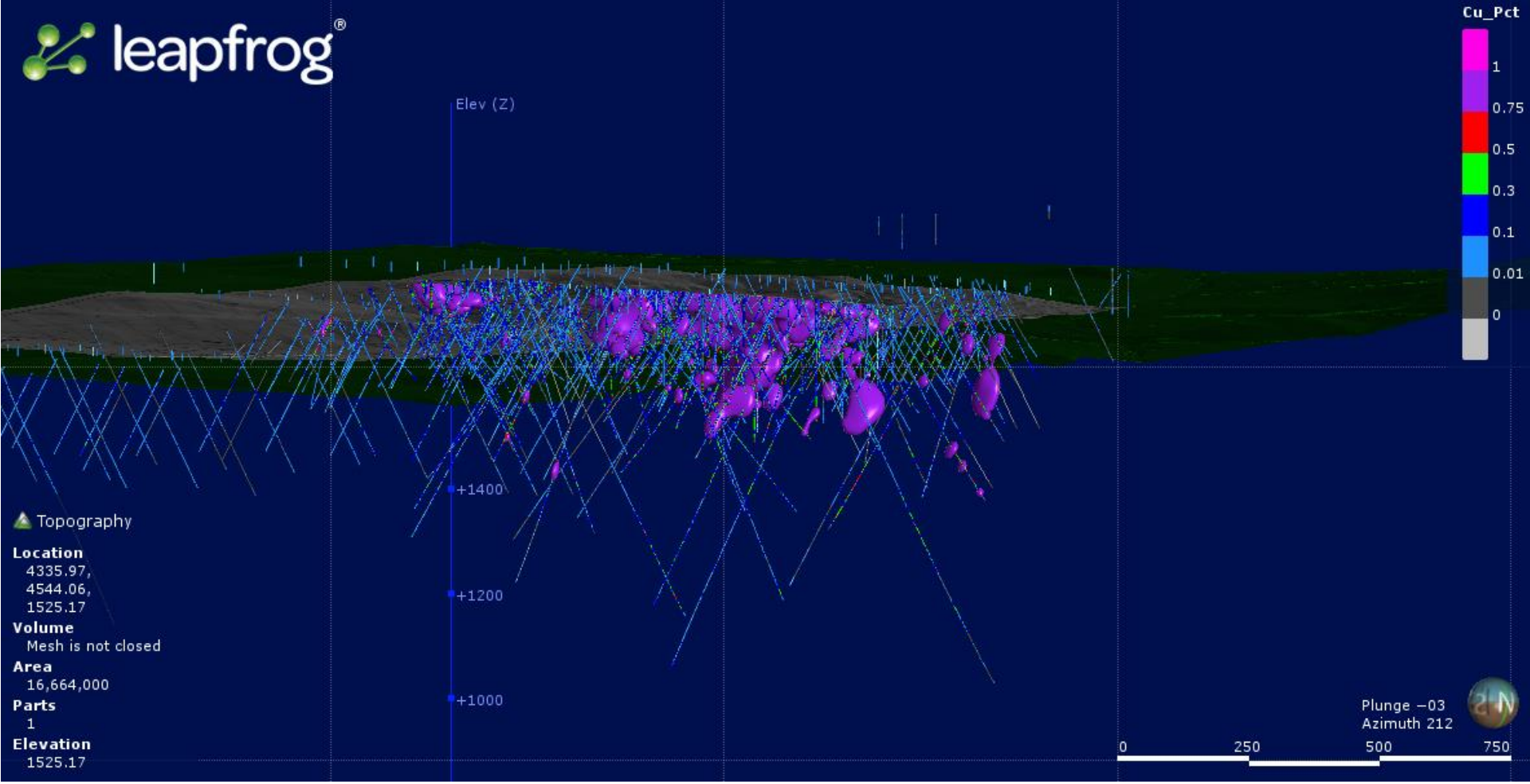
This zone is shown in the Leapfrog-generated image following, in the next slide…



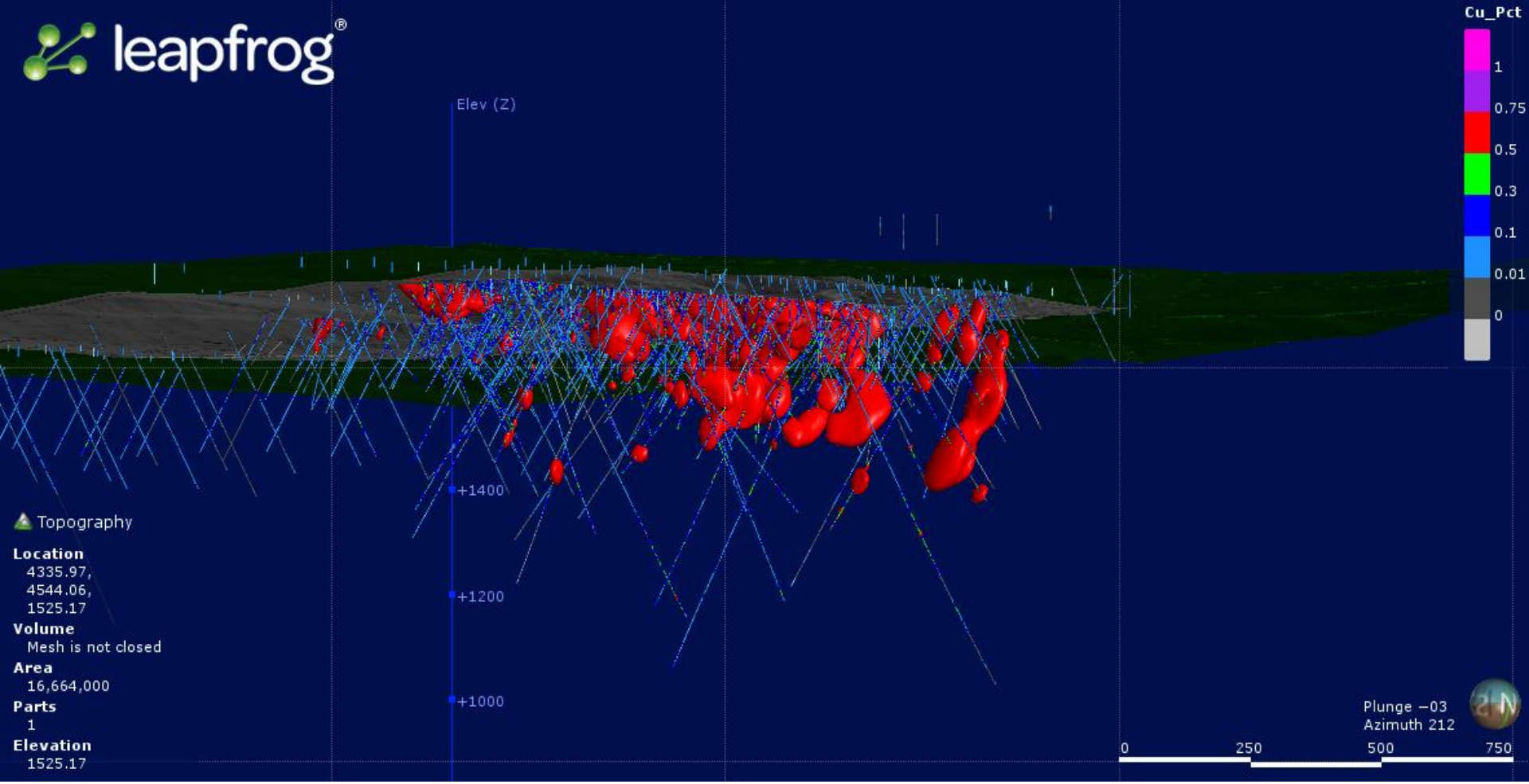
The mineralized sequence intersected in GCHD469 correlates well with the up-dip drill-hole GCHR319 on section 6150N, but with lower copper and higher gold tenor in GCHD469. Mineralisation may continue to the south of GCHD469 in the zone to the north of, and below, previous drill hole GCHR190, and presents a target zone which has not been well tested by either shallow, or deep drilling. This zone is shown in the Leapfrog-generated image above. The view is looking upwards to the northwest, from a viewing point 450 metres below ground.



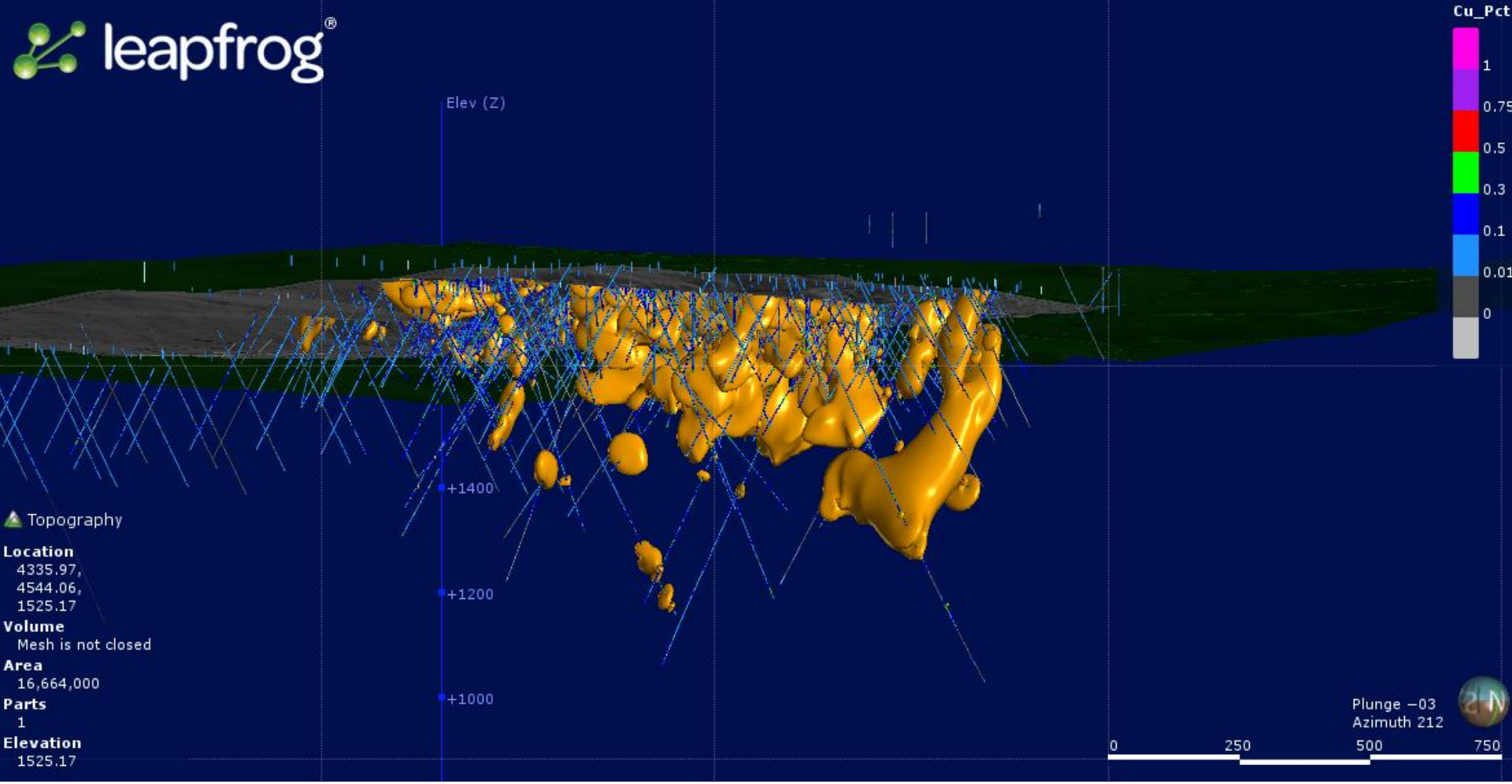
View looking southwest, the same angle as the following slides from underground…



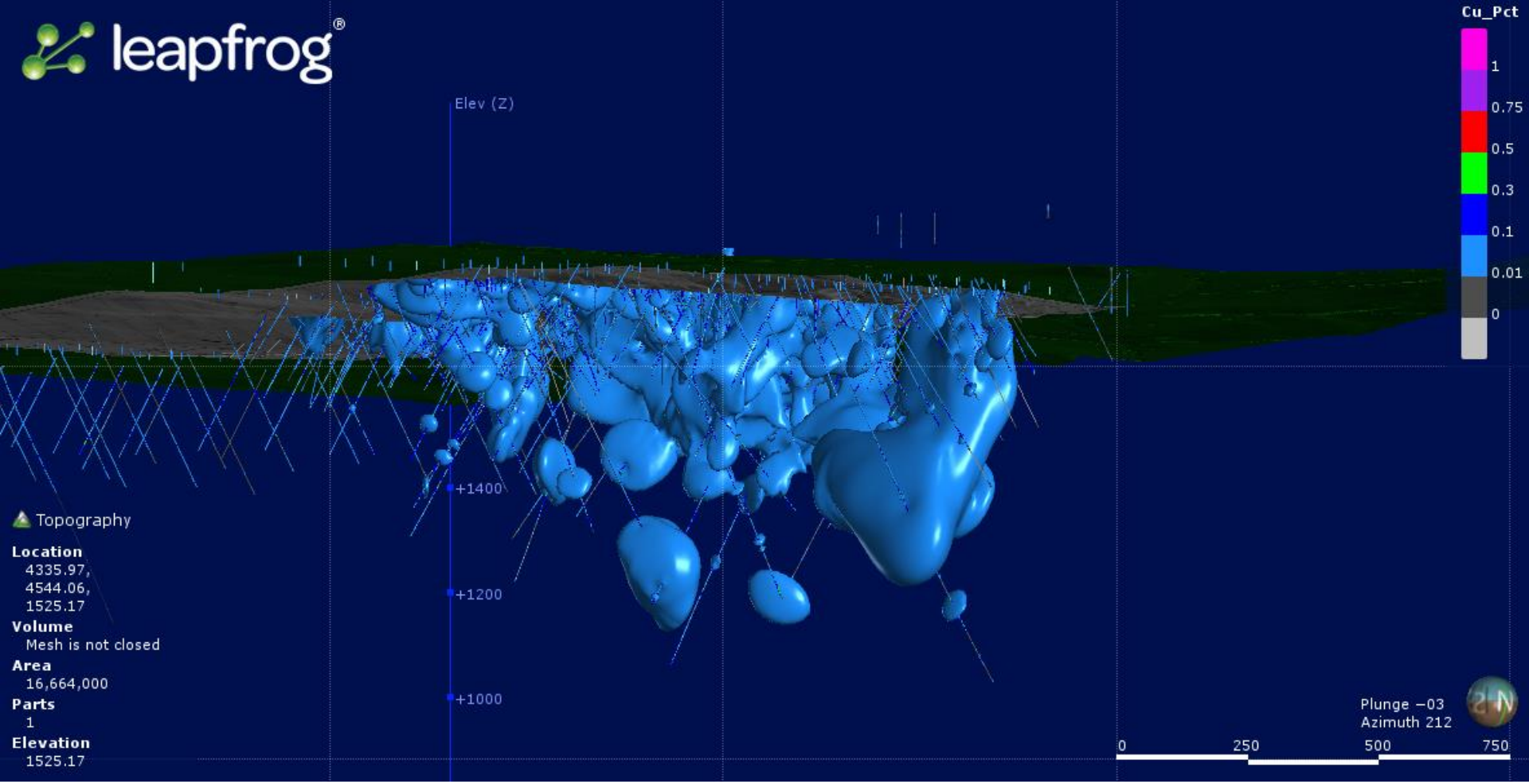
Looking southwest at Leapfrog shells at 0.5% copper cut-off



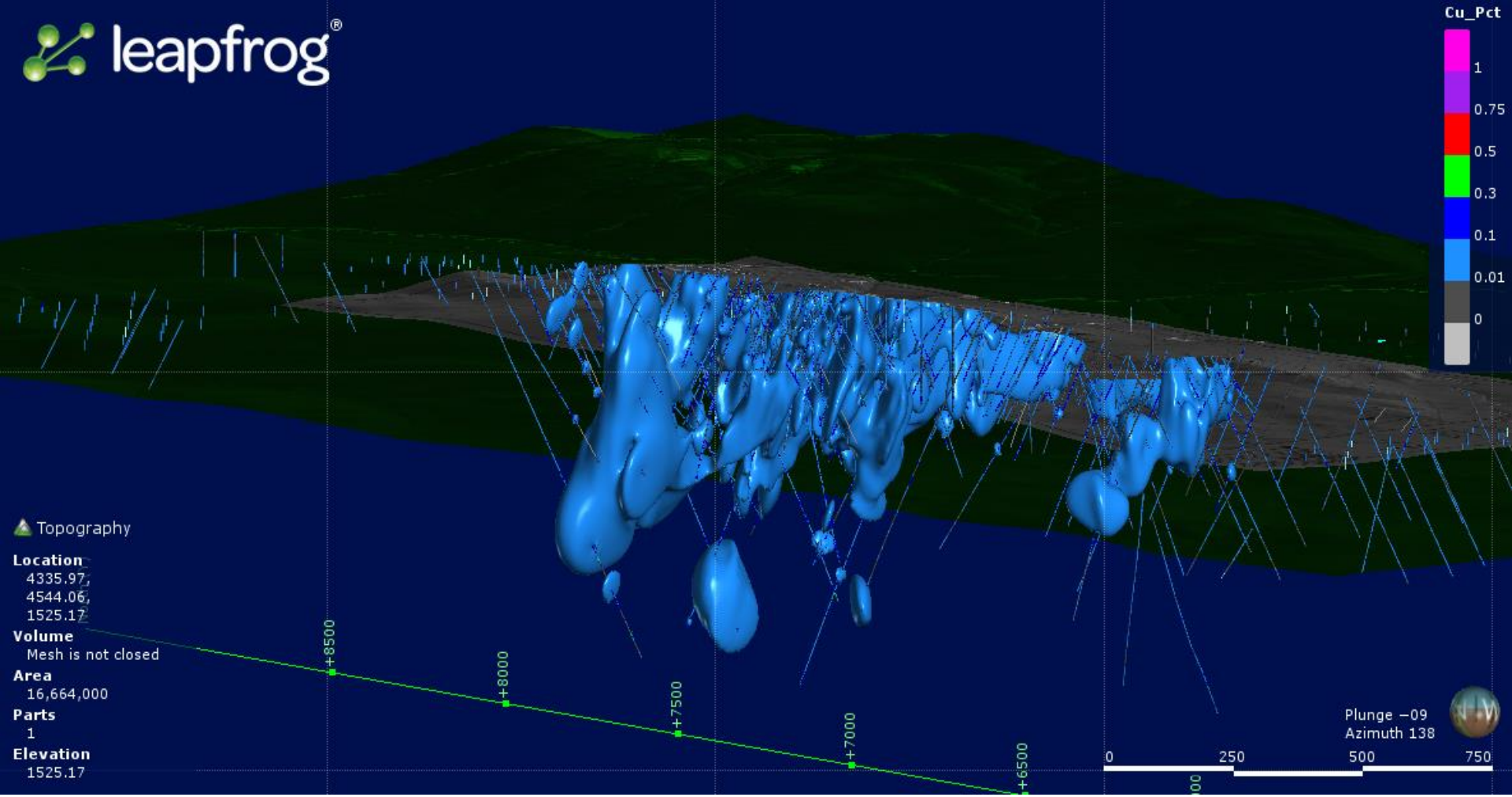
Looking southwest at Leapfrog shells at 0.4% copper cut-off



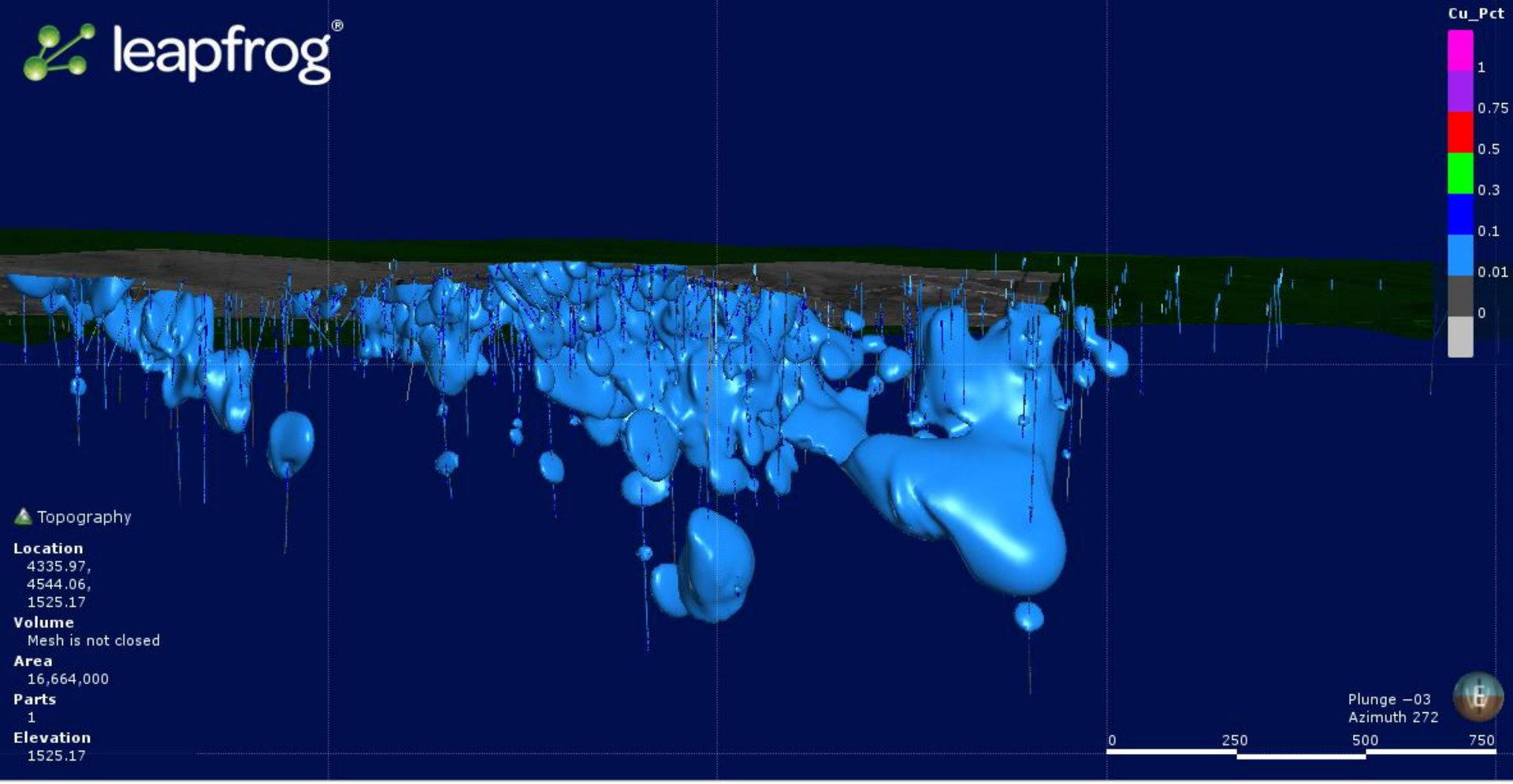
Looking southwest at Leapfrog shells at 0.3% copper cut-off



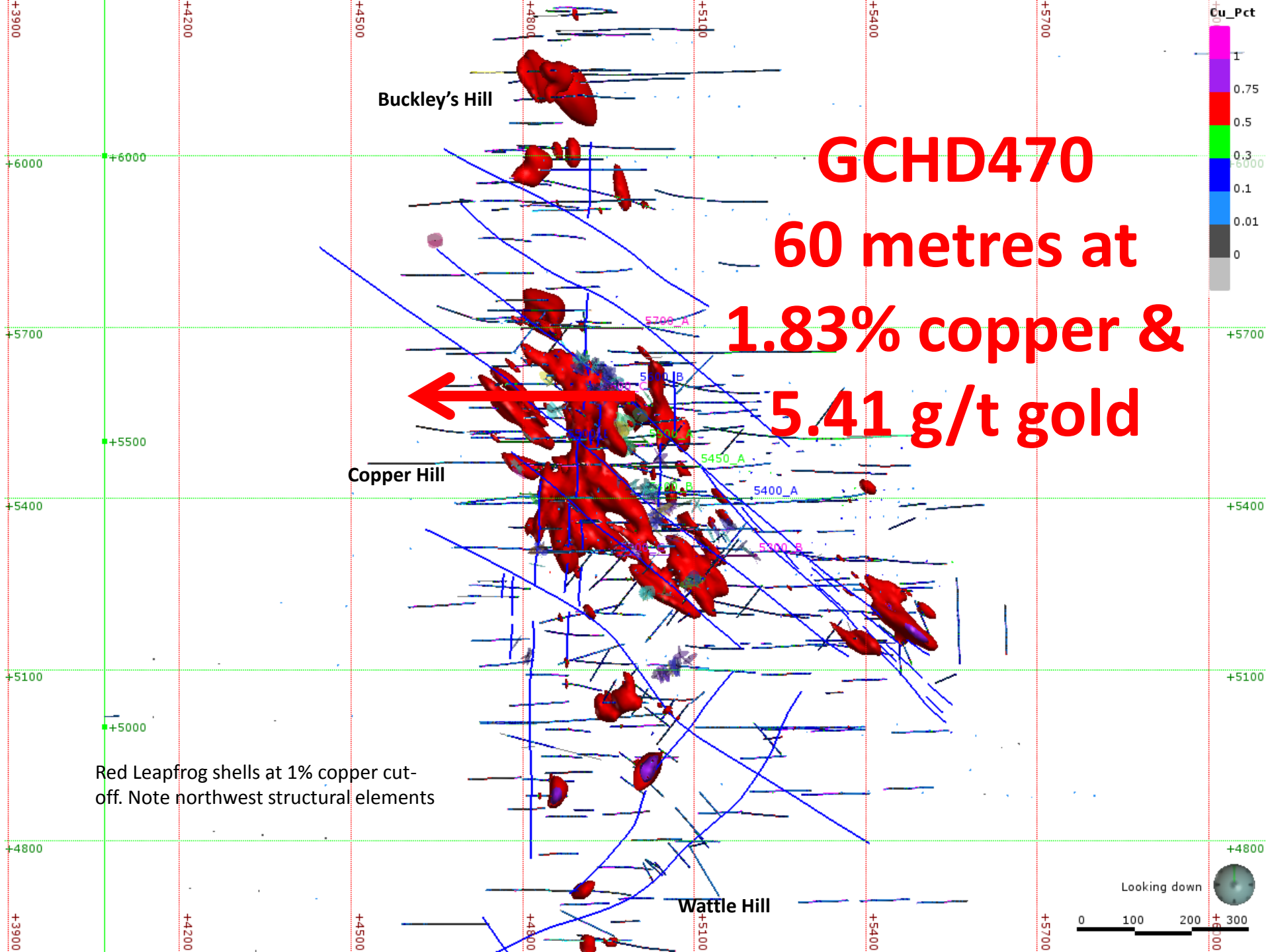
Looking southwest at Leapfrog shells at 0.2% copper cut-off. Buckley's Hill to near right

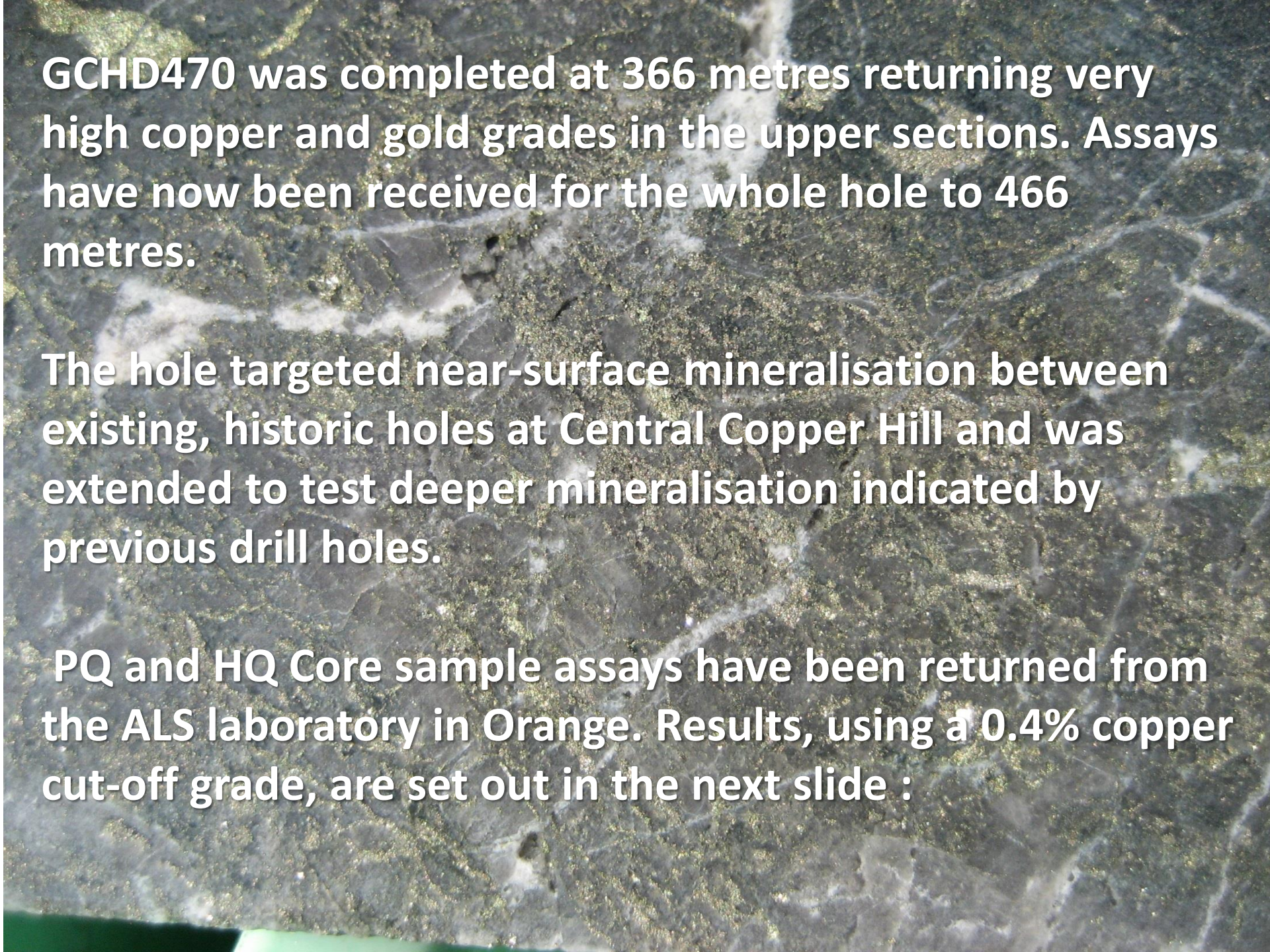


Looking southeast at Leapfrog shells at 0.2% copper cut-off. Buckley's Hill to near left.



Looking west at Leapfrog shells at 0.2% copper cut-off. Wattle Hill to left (south), Copper Hill centre, Buckley's Hill to right (north)


Buckley's Hill
Copper Hill
Wattle Hill
GCHD470
60 metres at
1.83% copper &
5.41 g/t gold
Red Leapfrog shells at 1% copper cut-off. Note northwest structural elements
Cu_Pct
1
0.75
0.5
0.3
0.1
0.01
0
5700_A
5500_B
5450_A
5400_A
5300_B
+3900
+4200
+4500
+4800
+5100
+5400
+5700
+6000
+5500
+5000
Looking down
0
100
200
300



GCHD470 was completed at 366 metres returning very high copper and gold grades in the upper sections. Assays have now been received for the whole hole to 466 metres.

The hole targeted near-surface mineralisation between existing, historic holes at Central Copper Hill and was extended to test deeper mineralisation indicated by previous drill holes.

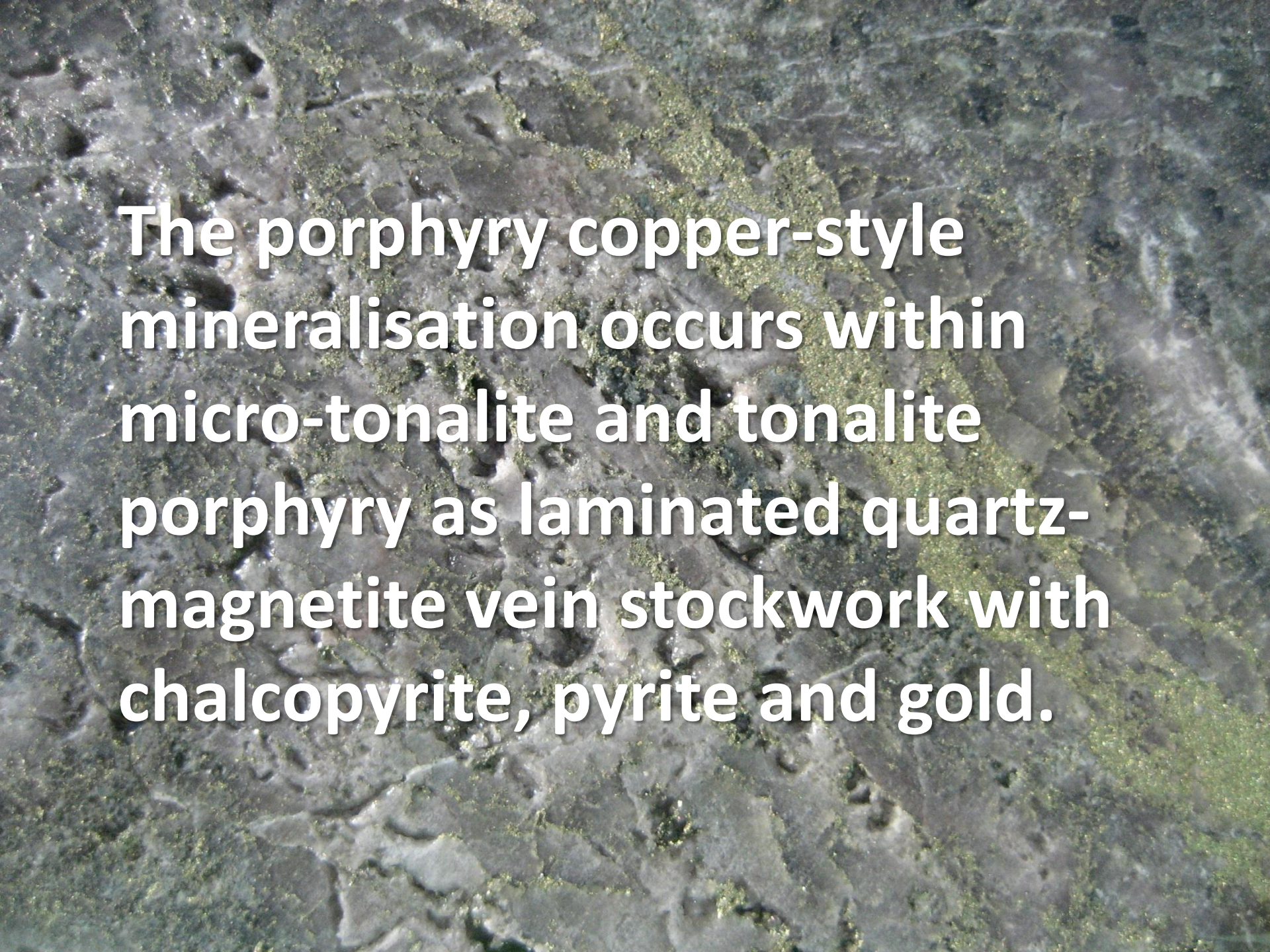
PQ and HQ Core sample assays have been returned from the ALS laboratory in Orange. Results, using a 0.4% copper cut-off grade, are set out in the next slide :

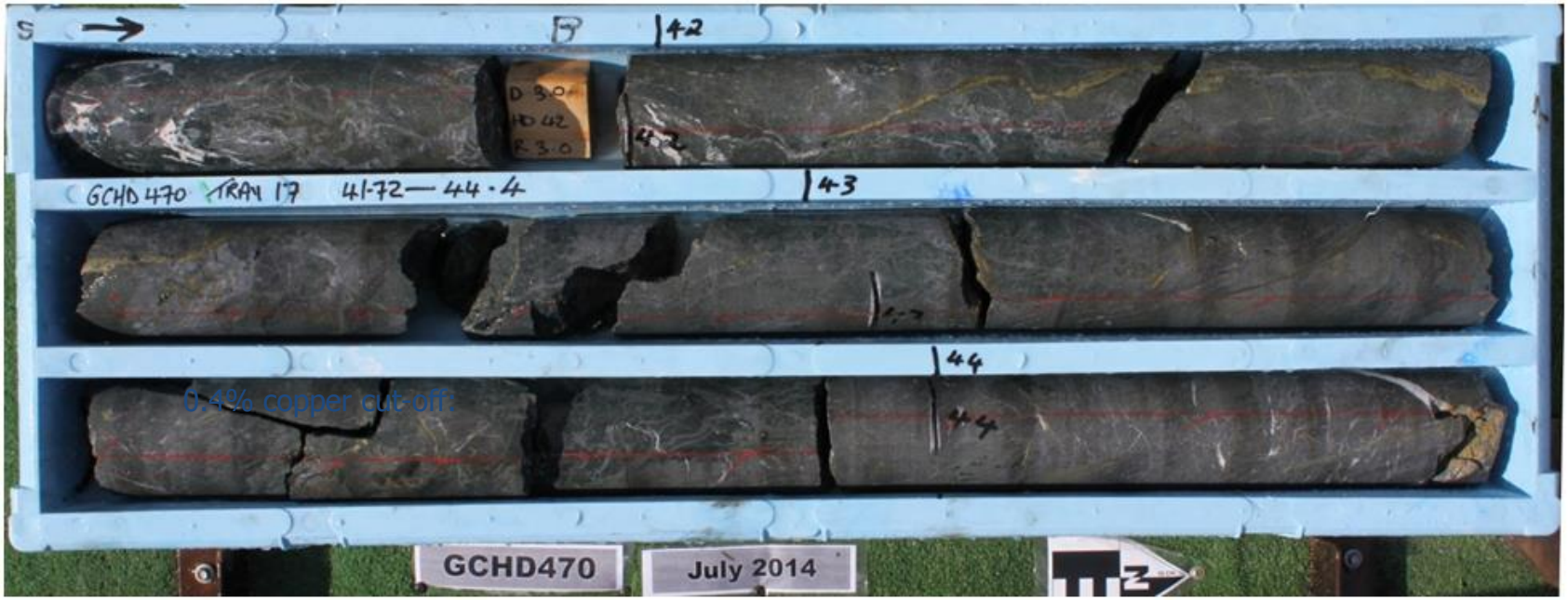
0.4% copper cut-off:

From (m)	To (m)	Interval (m)	Copper %	Gold g/t
11	**71**	**60**	**1.83**	**5.41**
76	100	24	0.64	0.74
124	131	7	0.48	0.74
171	210	39	0.61	0.09

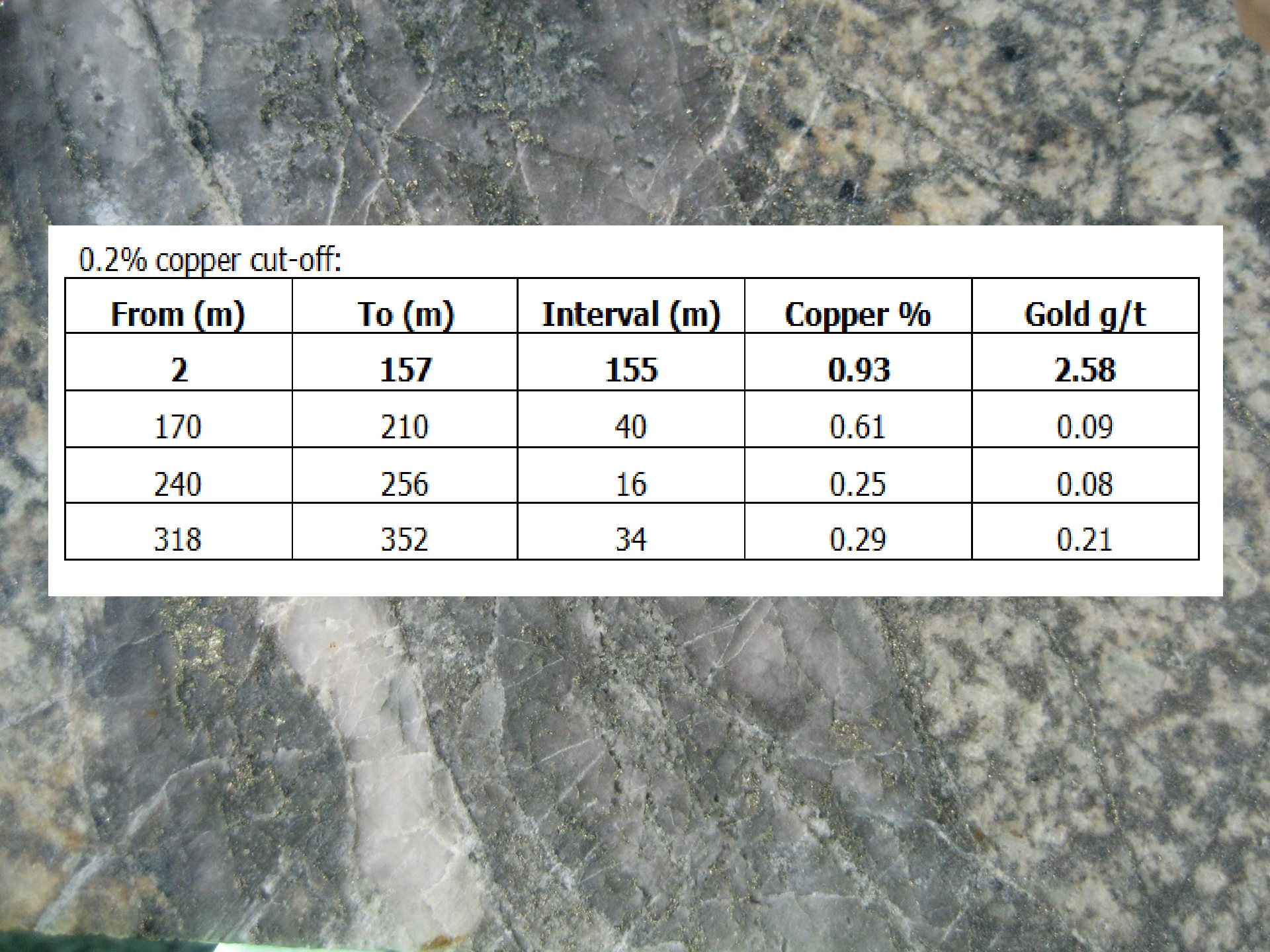
0.3% copper cut-off:

From (m)	To (m)	Interval (m)	Copper %	Gold g/t
2	**104**	**102**	**1.28**	**3.72**
122	131	9	0.44	0.64
171	210	39	0.61	0.09
318	352	34	0.29	0.21


The porphyry copper-style mineralisation occurs within micro-tonalite and tonalite porphyry as laminated quartz-magnetite vein stockwork with chalcopyrite, pyrite and gold.

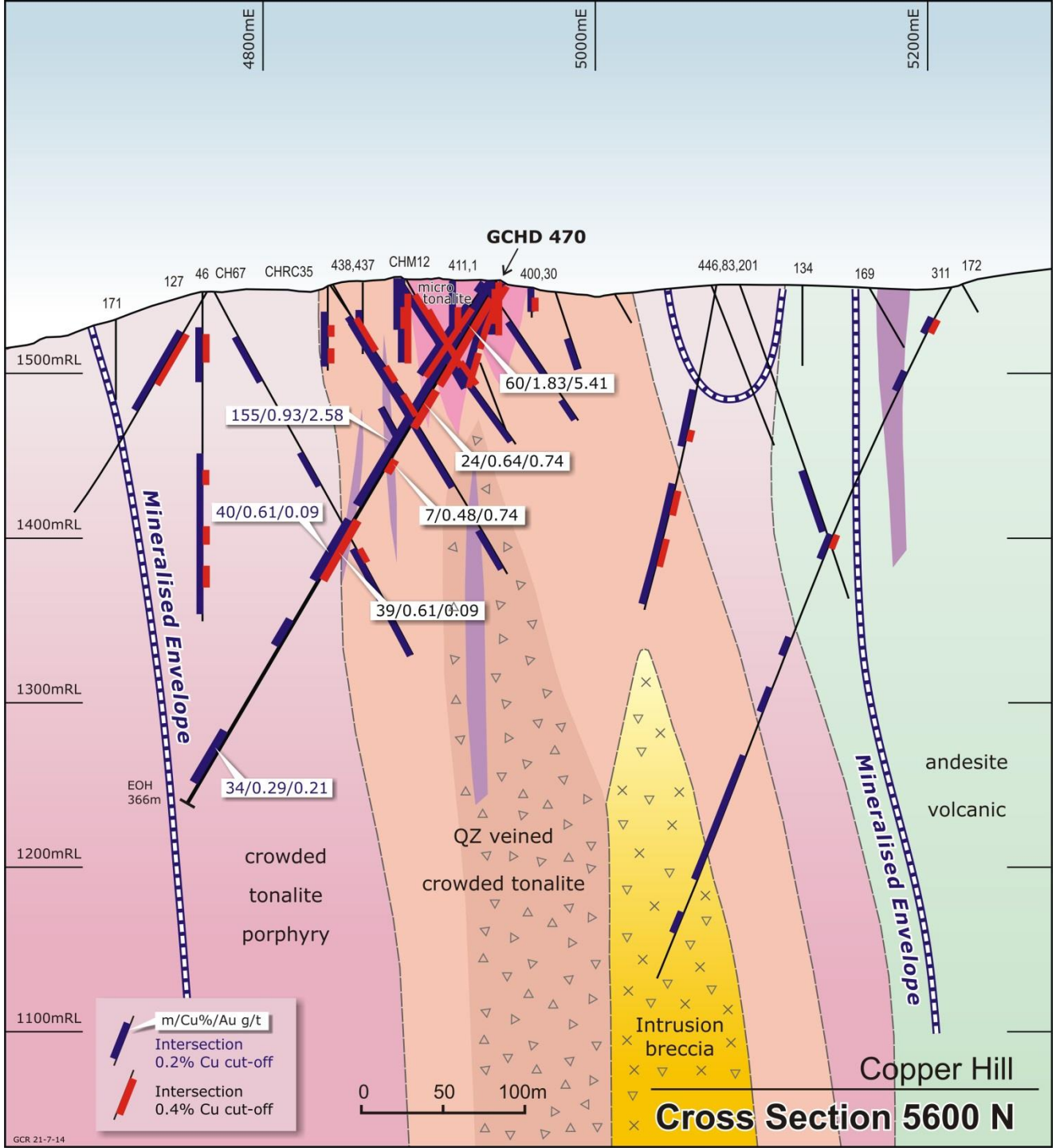


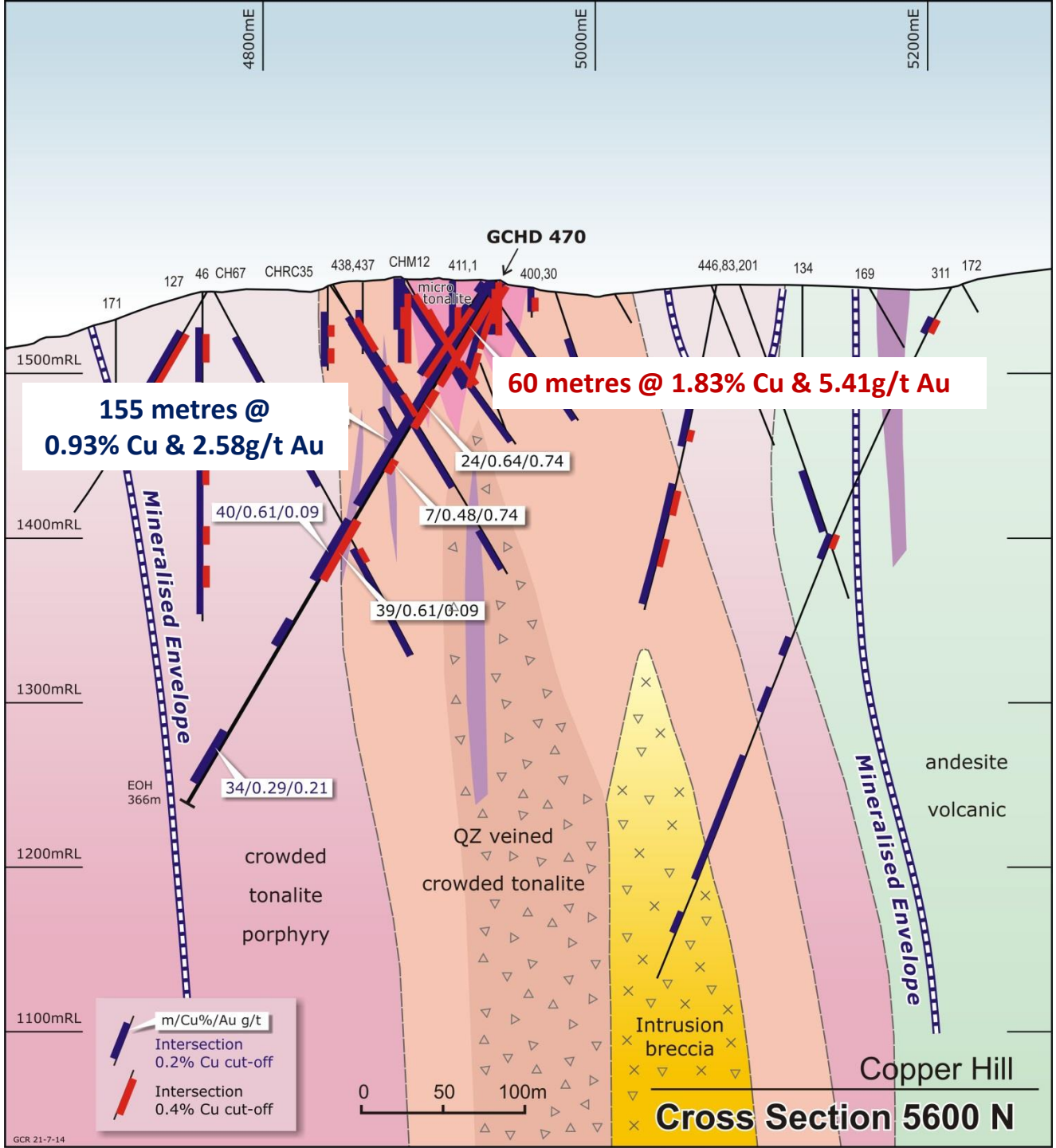
GCHD470 assays, whole PQ core photo:
42m to 43m, 5.35% copper, 17.9g/t gold. 43m to 44m, 4.00% copper 15.25g/t gold

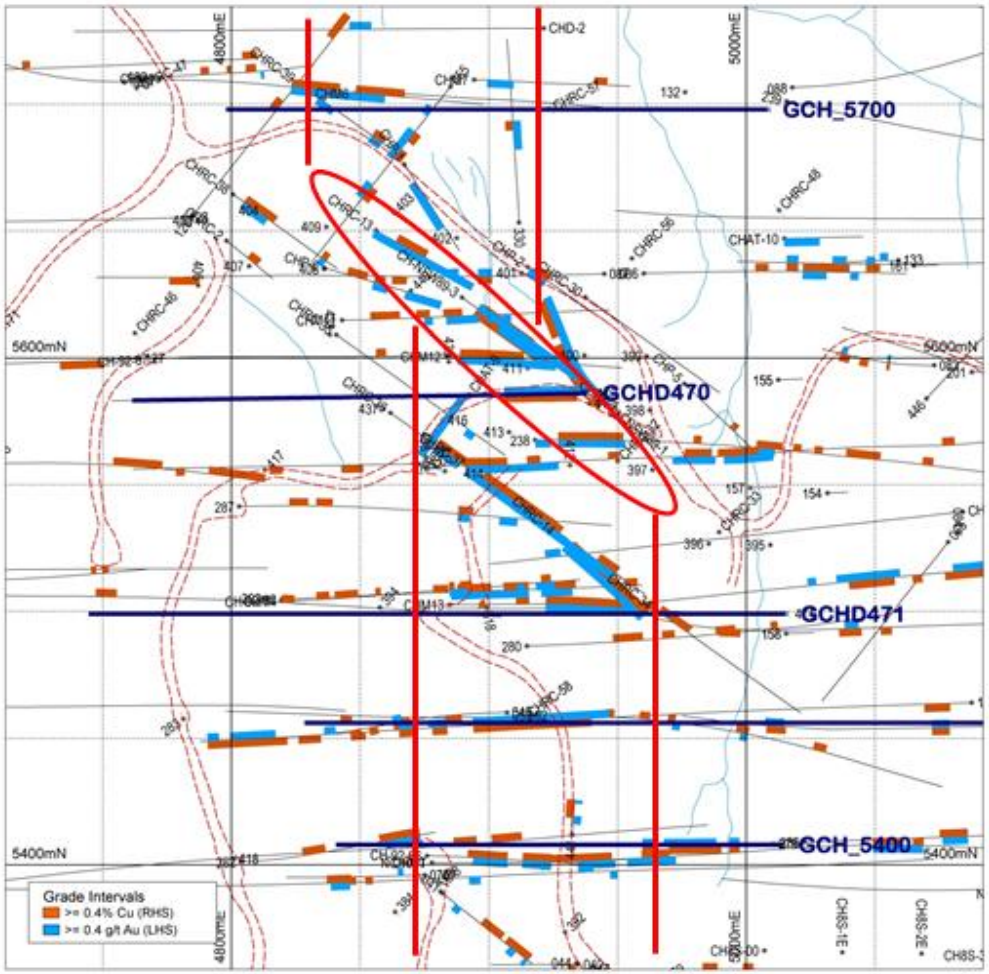


0.2% copper cut-off:

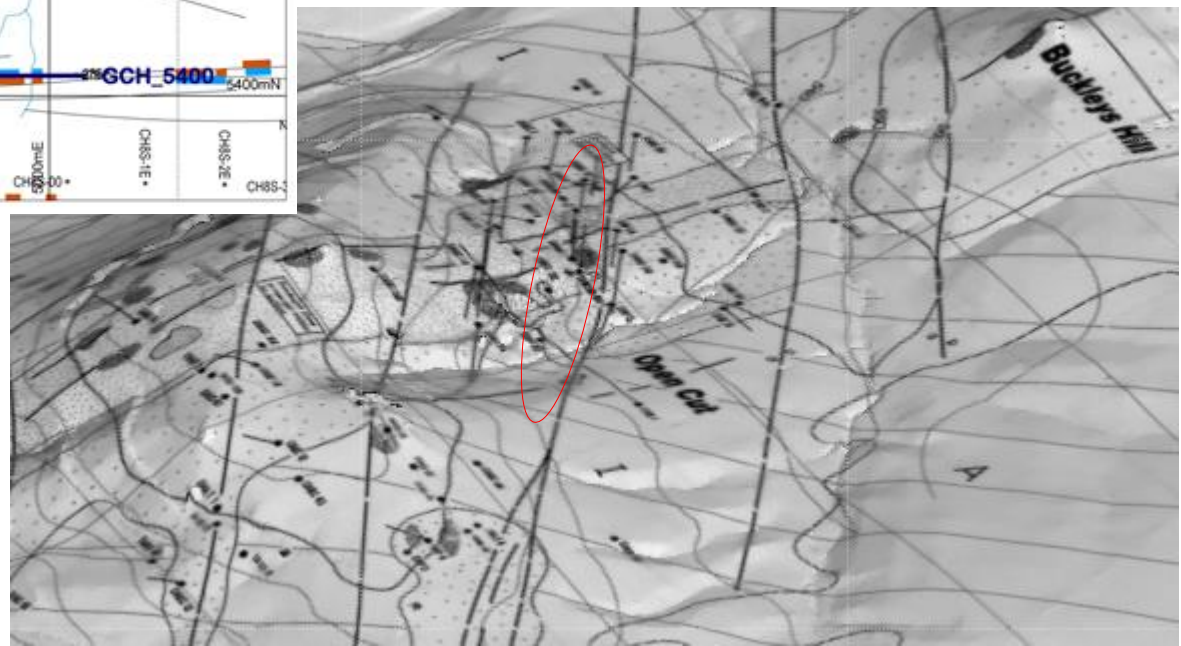
From (m)	To (m)	Interval (m)	Copper %	Gold g/t
2	**157**	**155**	**0.93**	**2.58**
170	210	40	0.61	0.09
240	256	16	0.25	0.08
318	352	34	0.29	0.21

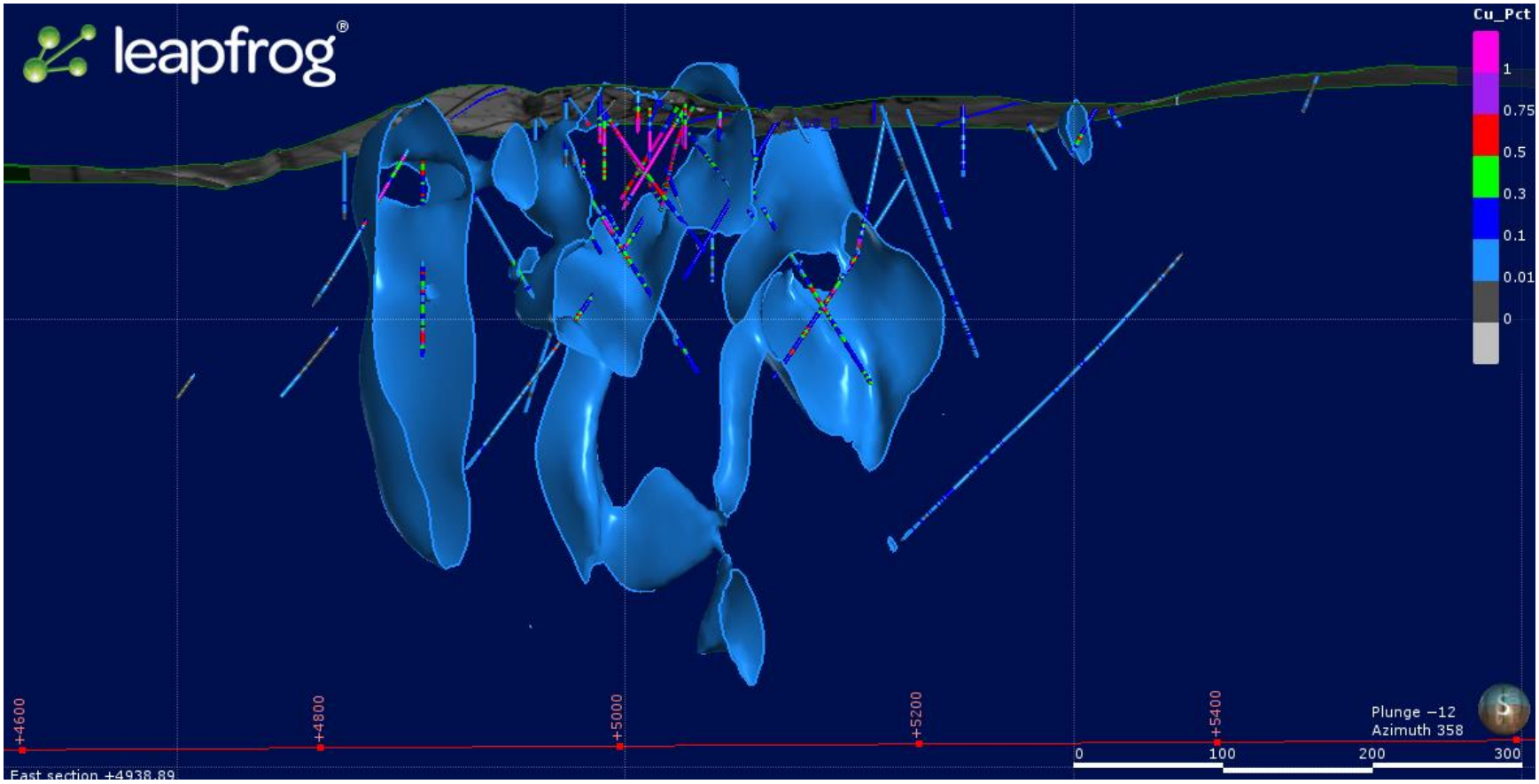

4800mE
5000mE
5200mE
GCHD 470
171
127
46
CH67
CHRC35
438,437
CHM12
411,1
400,30
446,83,201
134
169
311
172
micro tonalite
1500mRL
1400mRL
1300mRL
1200mRL
1100mRL
60/1.83/5.41
155/0.93/2.58
24/0.64/0.74
40/0.61/0.09
7/0.48/0.74
39/0.61/0.09
34/0.29/0.21
EOH
366m
Mineralised Envelope
Mineralised Envelope
crowded
tonalite
porphyry
QZ veined
crowded tonalite
Intrusion
breccia
andesite
volcanic
m/Cu%/Au g/t
Intersection
0.2% Cu cut-off
Intersection
0.4% Cu cut-off
0
50
100m
Copper Hill
Cross Section 5600 N
GCR 21-7-14


4800mE
5000mE
5200mE
GCHD 470
171
127
46
CH67
CHRC35
438,437
CHM12
411,1
400,30
446,83,201
134
169
311
172
micro tonalite
1500mRL
1400mRL
1300mRL
1200mRL
1100mRL
155 metres @
0.93% Cu & 2.58g/t Au
60 metres @ 1.83% Cu & 5.41g/t Au
24/0.64/0.74
40/0.61/0.09
7/0.48/0.74
39/0.61/0.09
34/0.29/0.21
EOH
366m
Mineralised Envelope
Mineralised Envelope
crowded
tonalite
porphyry
QZ veined
crowded tonalite
Intrusion
breccia
andesite
volcanic
m/Cu%/Au g/t
Intersection
0.2% Cu cut-off
Intersection
0.4% Cu cut-off
0
50
100m
Copper Hill
Cross Section 5600 N
GCR 21-7-14

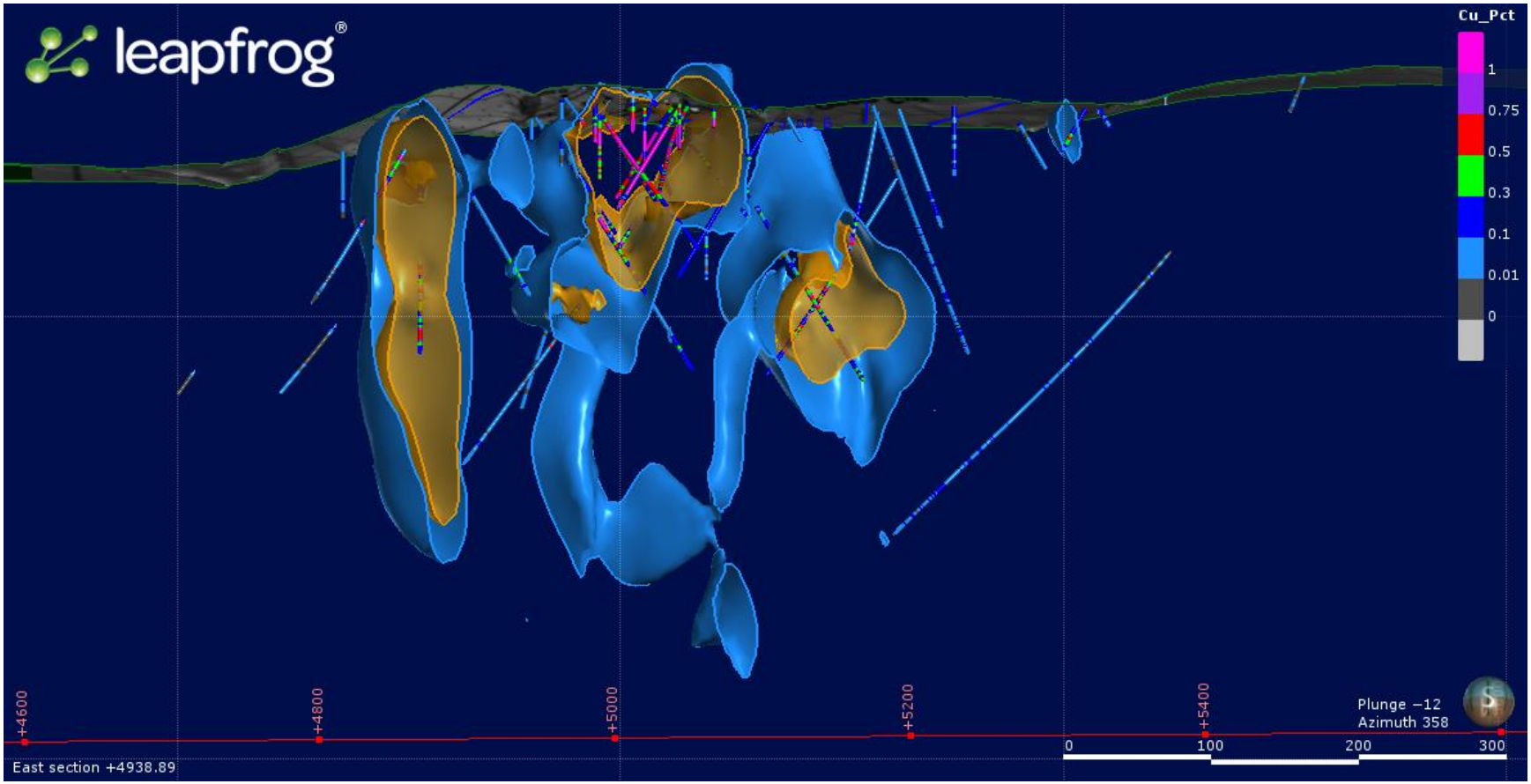


High grade dilatant zone, trending northwest, holds potential to add more tonnes at high grades

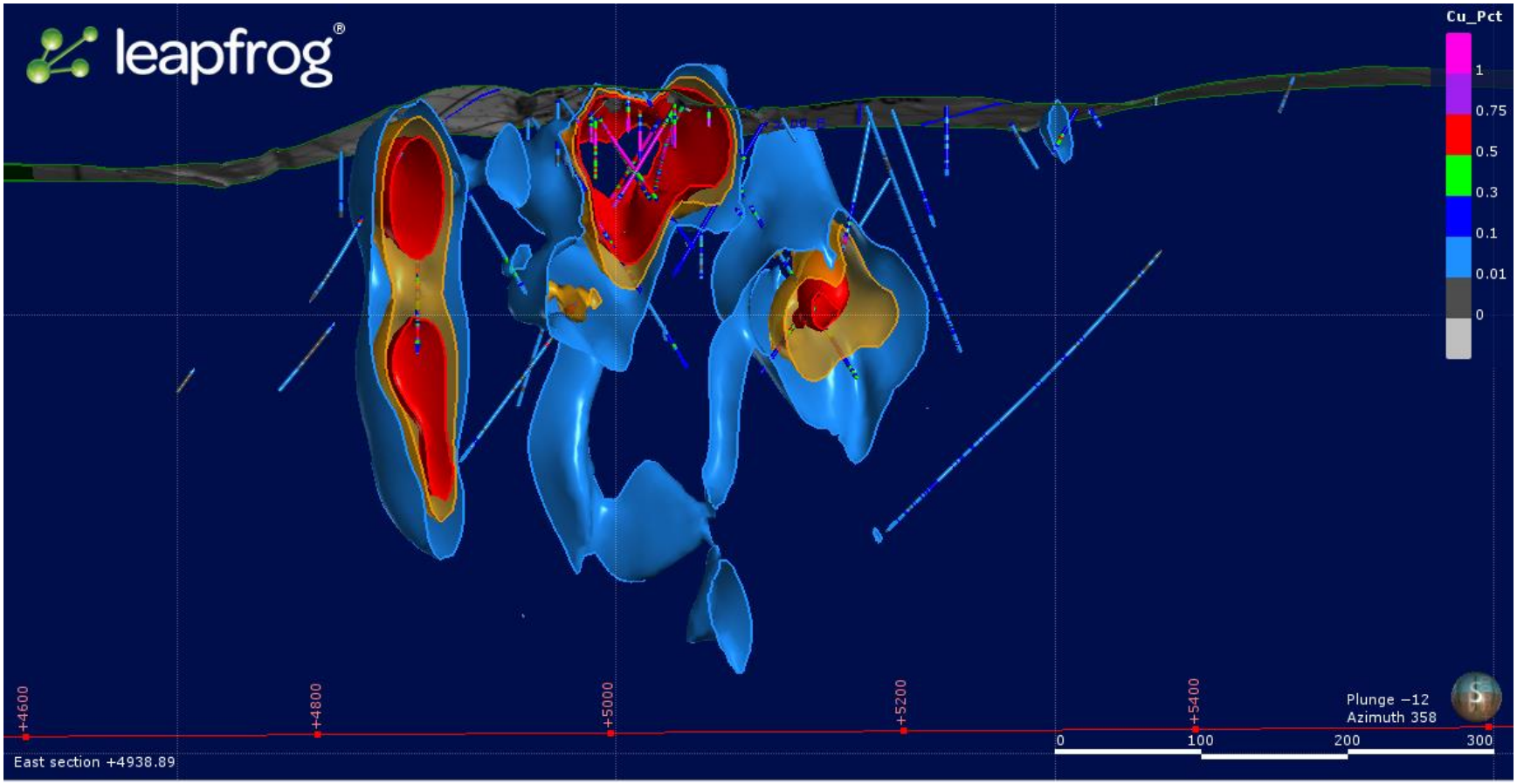




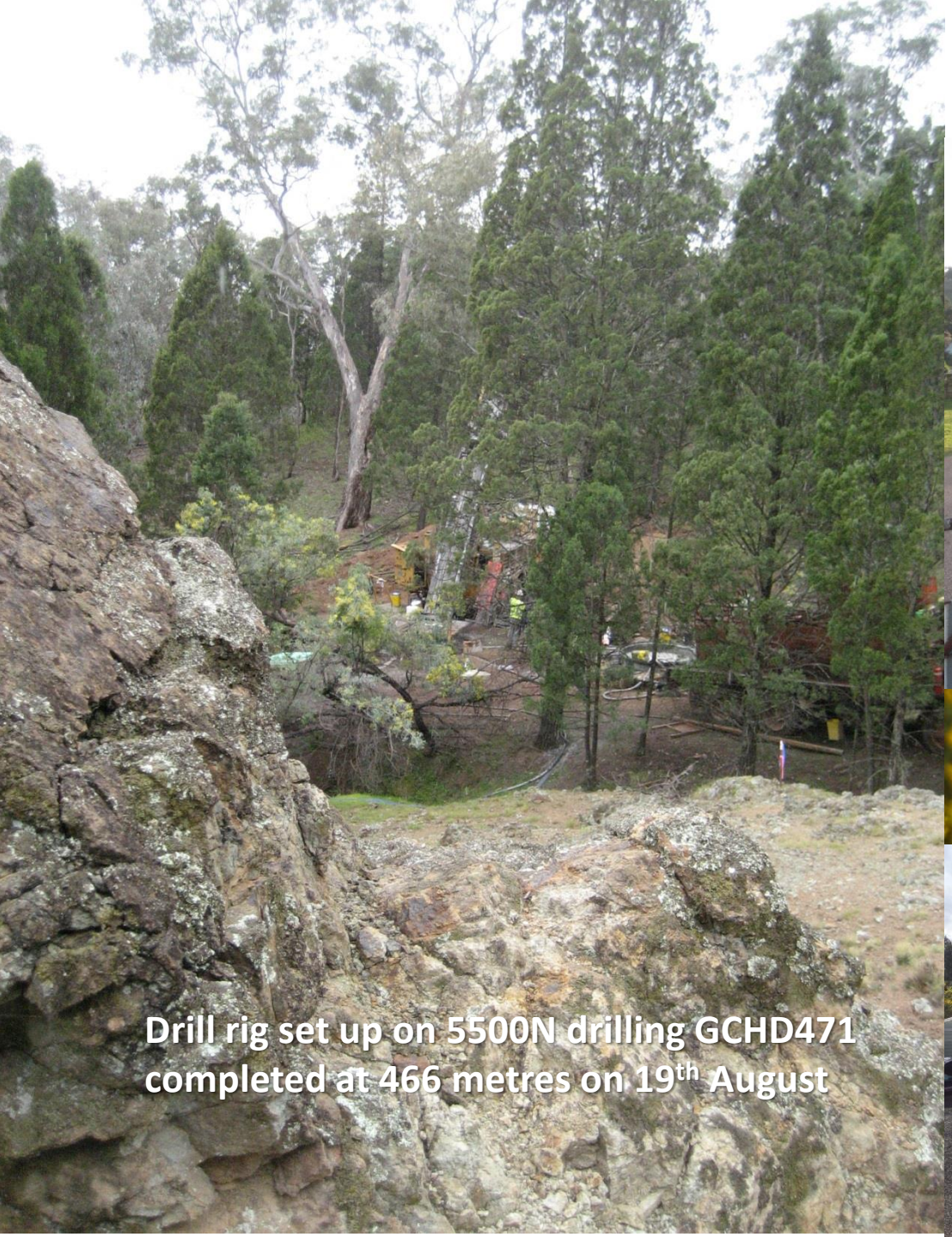
5600N: 0.2% copper leapfrog shells



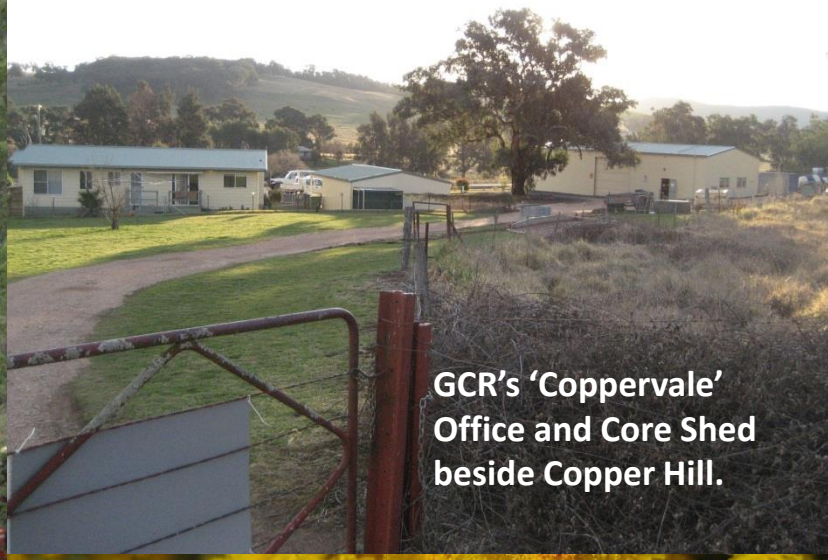
5600N: 0.2% and 0.3% copper leapfrog shells



5600N: 0.2%, 0.3% & 0.4% copper leapfrog shells, looking north.



Drill rig set up on 5500N drilling GCHD471 completed at 466 metres on 19th August



GCR's 'Coppervale' Office and Core Shed beside Copper Hill.

'Coppervale' core yard

What's to come?

…….. this is what GCR is aiming for!

Assay Received

Wattle Hill