

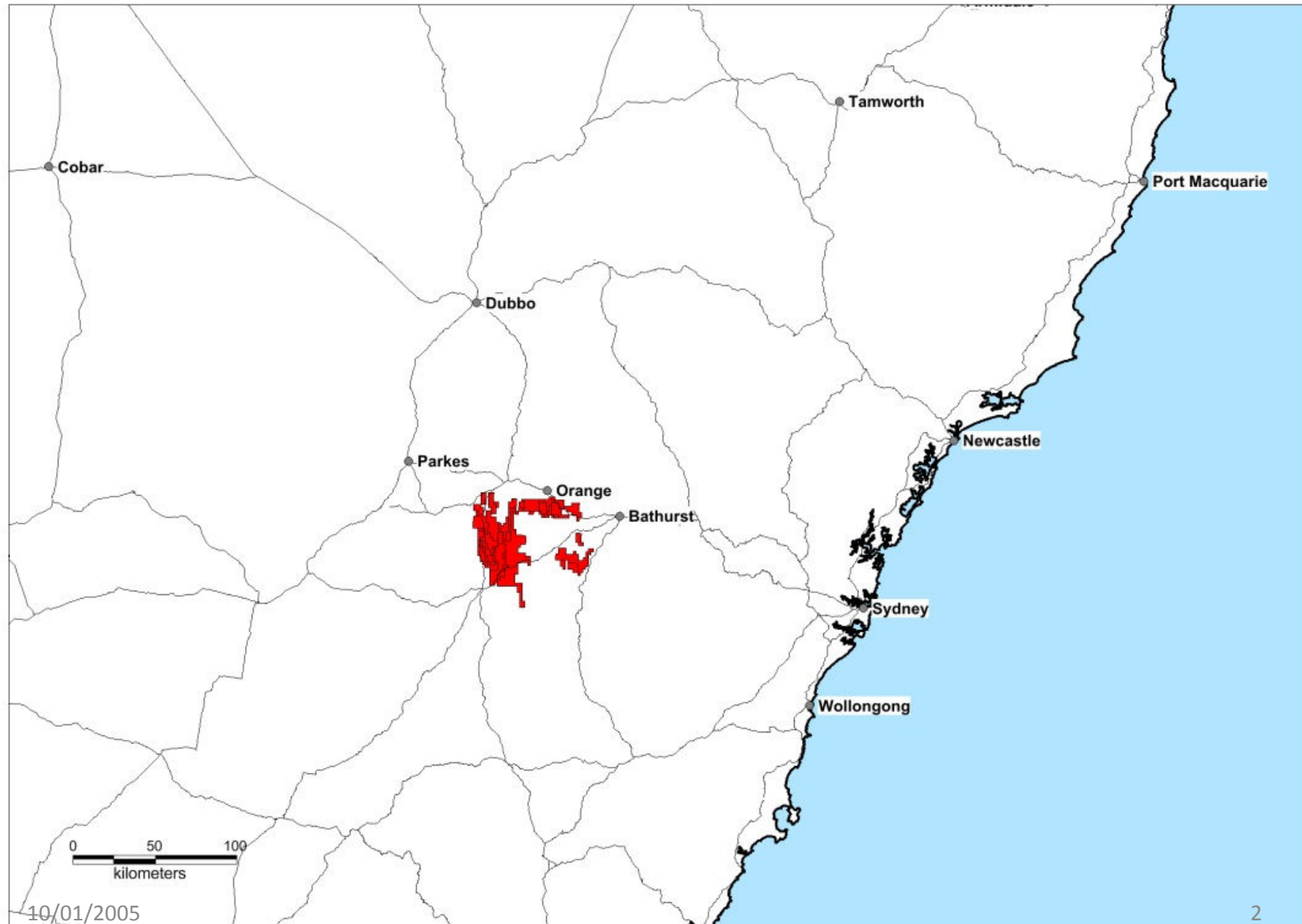
# SMEDG - 28<sup>th</sup> Feb 2013

“OLD ROCKS NEW TRICKS”

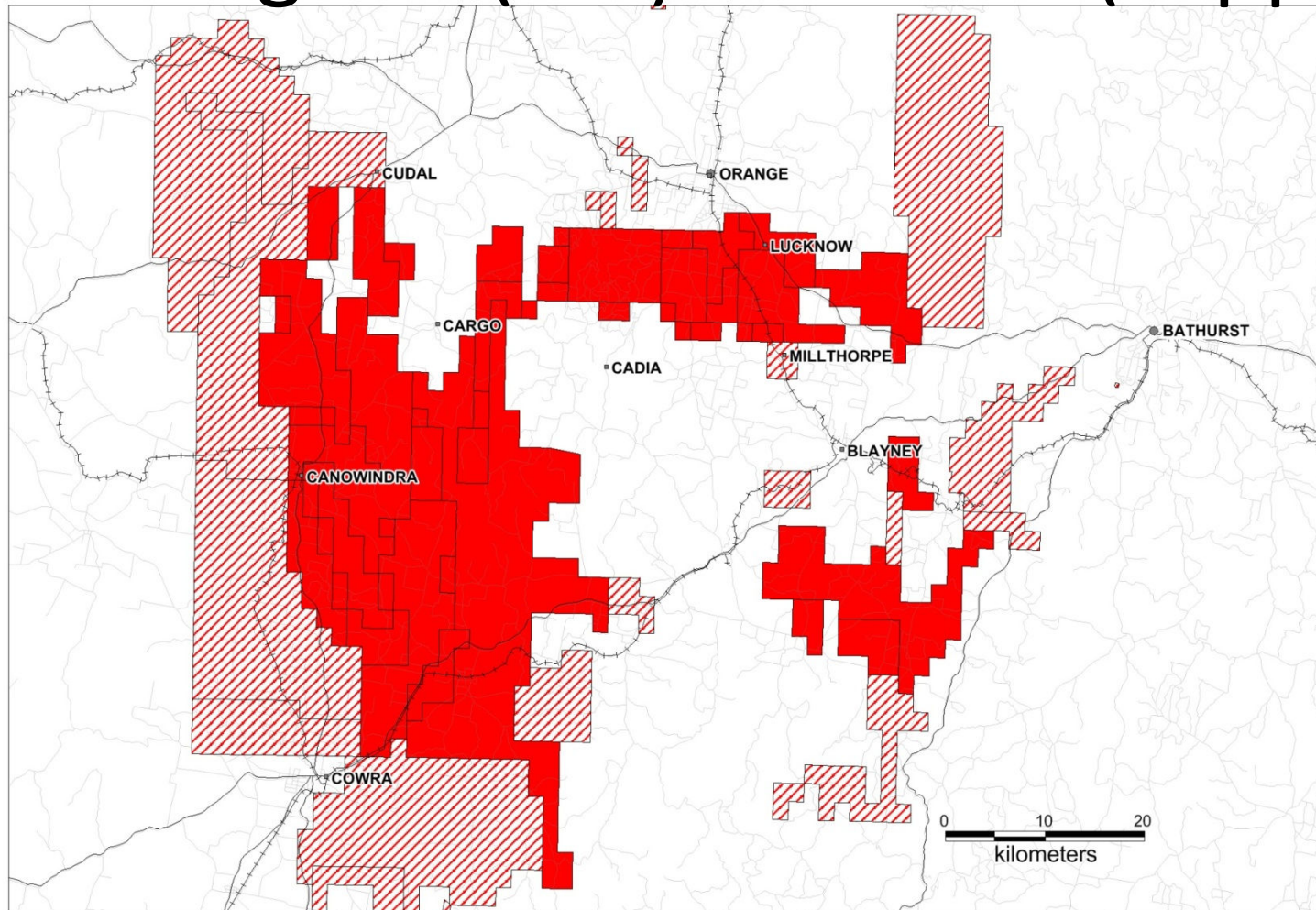
Surprises from the Canowindra Line of Workings  
(CLW) in Central Western NSW.

A presentation by Tully Richards  
C/- Gold and Copper Resources Pty Limited (G&C)

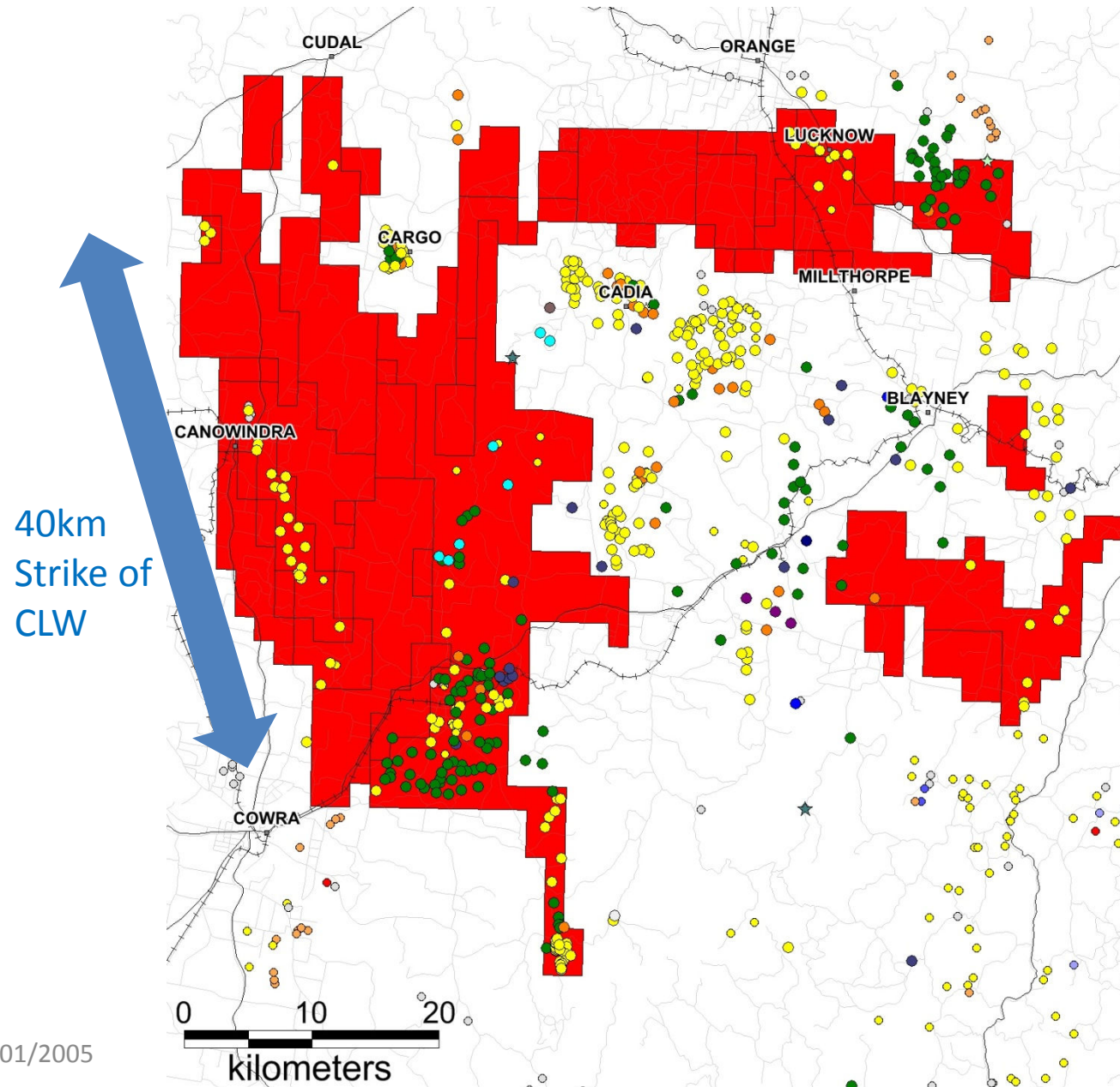
# Location of G&C Project



# Location of G&C Project showing EL's (red) and ELA's (stipple)



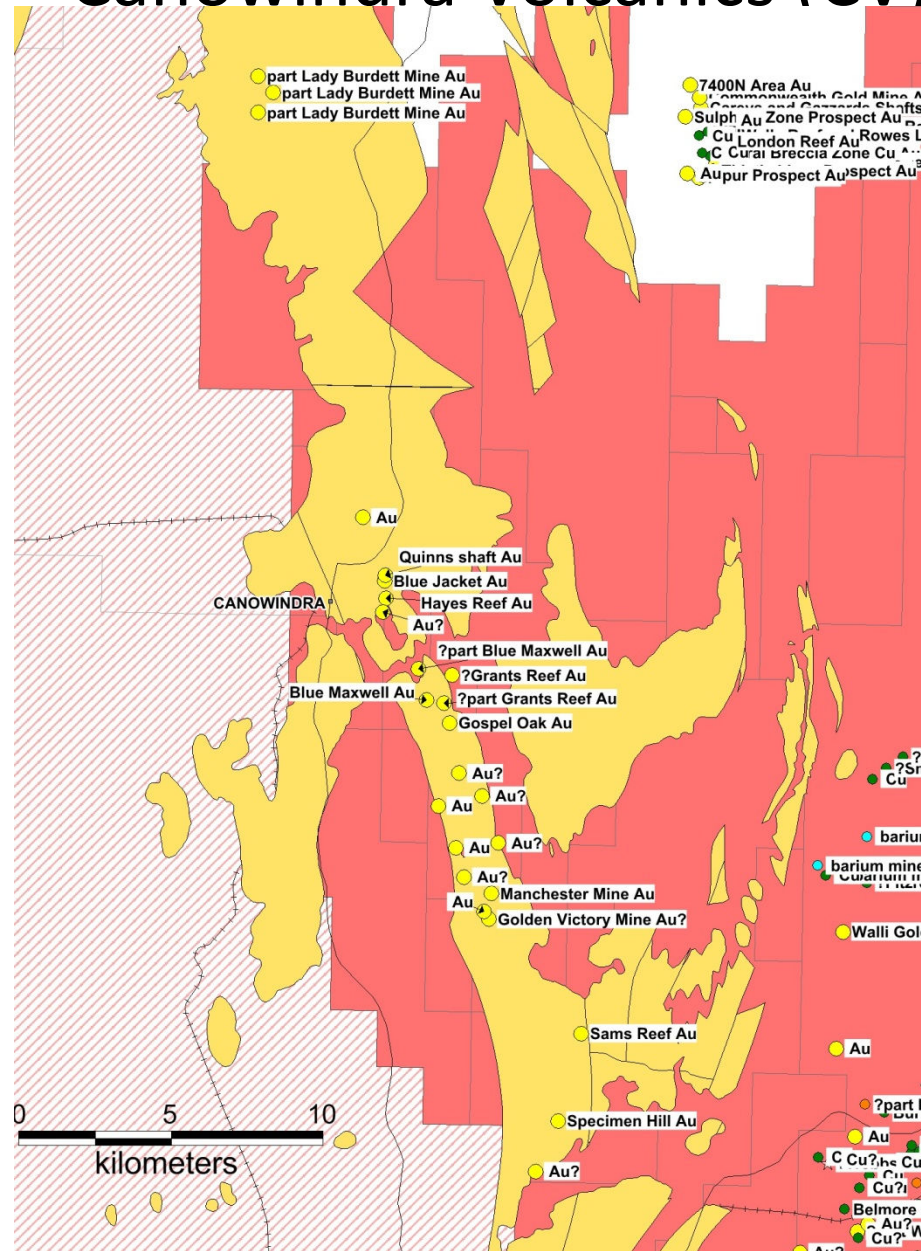
# Location of G&C Project – Min Occ with EL's



10/01/2005



# Location of G&C Project – Min Occ, EL's & Canowindra Volcanics (CV)

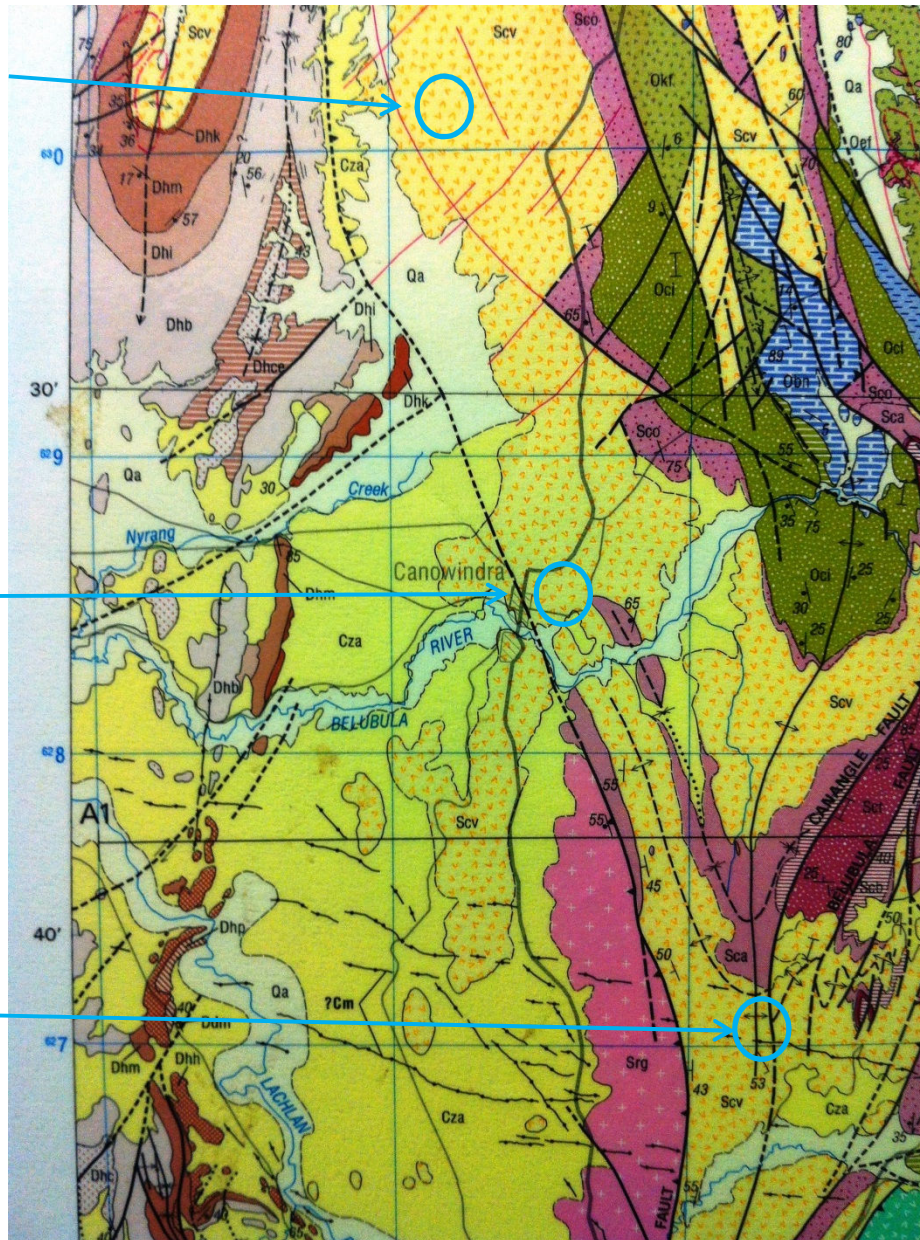


# Location of G&C Project – Min Occ with geology

Lady Burdett  
Mines

Blue Jacket  
Mines

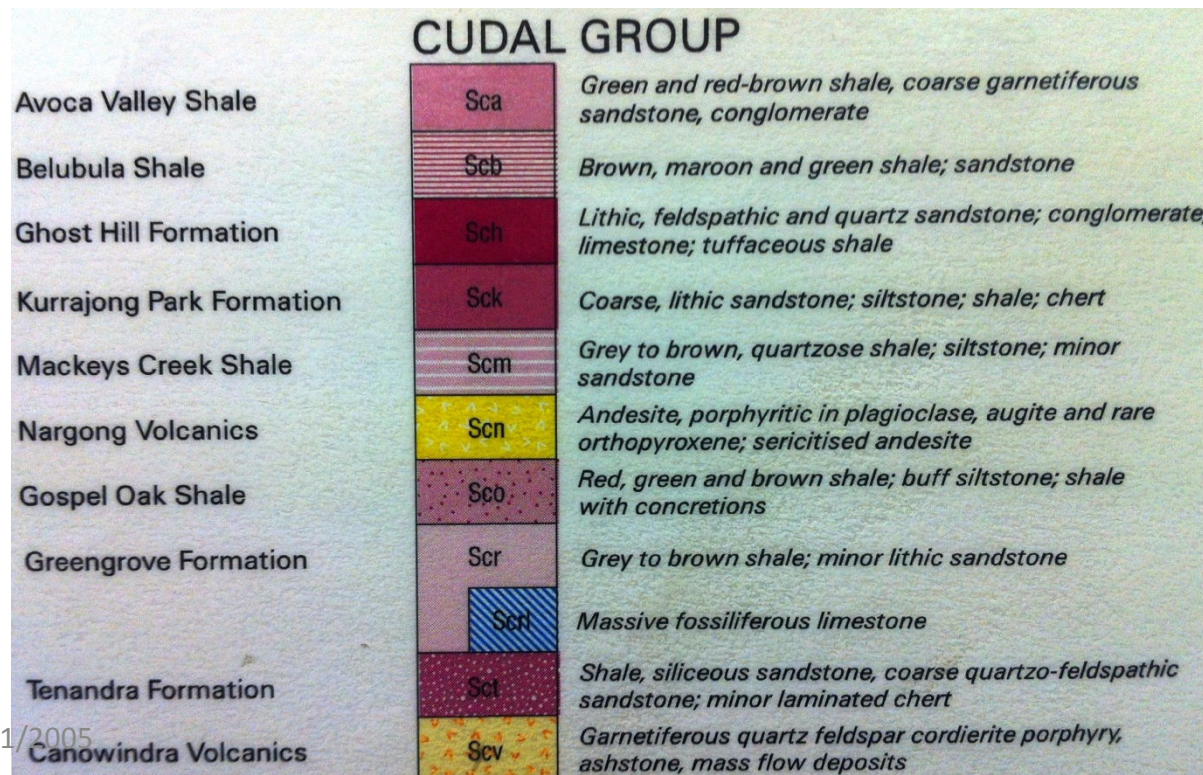
Sams Reef  
Mine





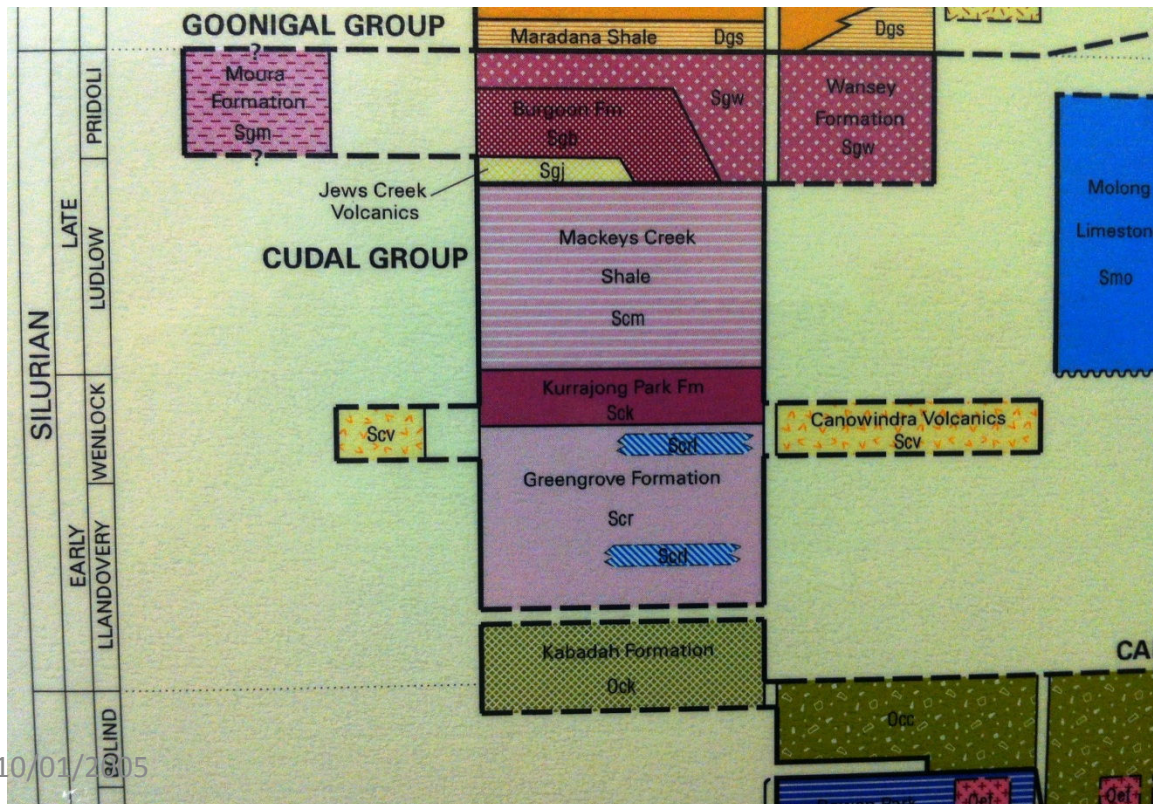
# Host Rocks and Setting

- CLW hosted within the Canowindra Volcanic's (CV's)
- CV's ~430Myo & part of the Cudal Group
  - 180kms in strike from sth of Cowra to Geurie



# Host Rocks and Setting

- CV = S-Type, massive rhyolitic/rhyo-dacitic qtz-feld porph
- Chemical and petrographic characteristics of the CV and Cowra Granodiorite (CG) suggest the CV are the extrusive eq. of the CG



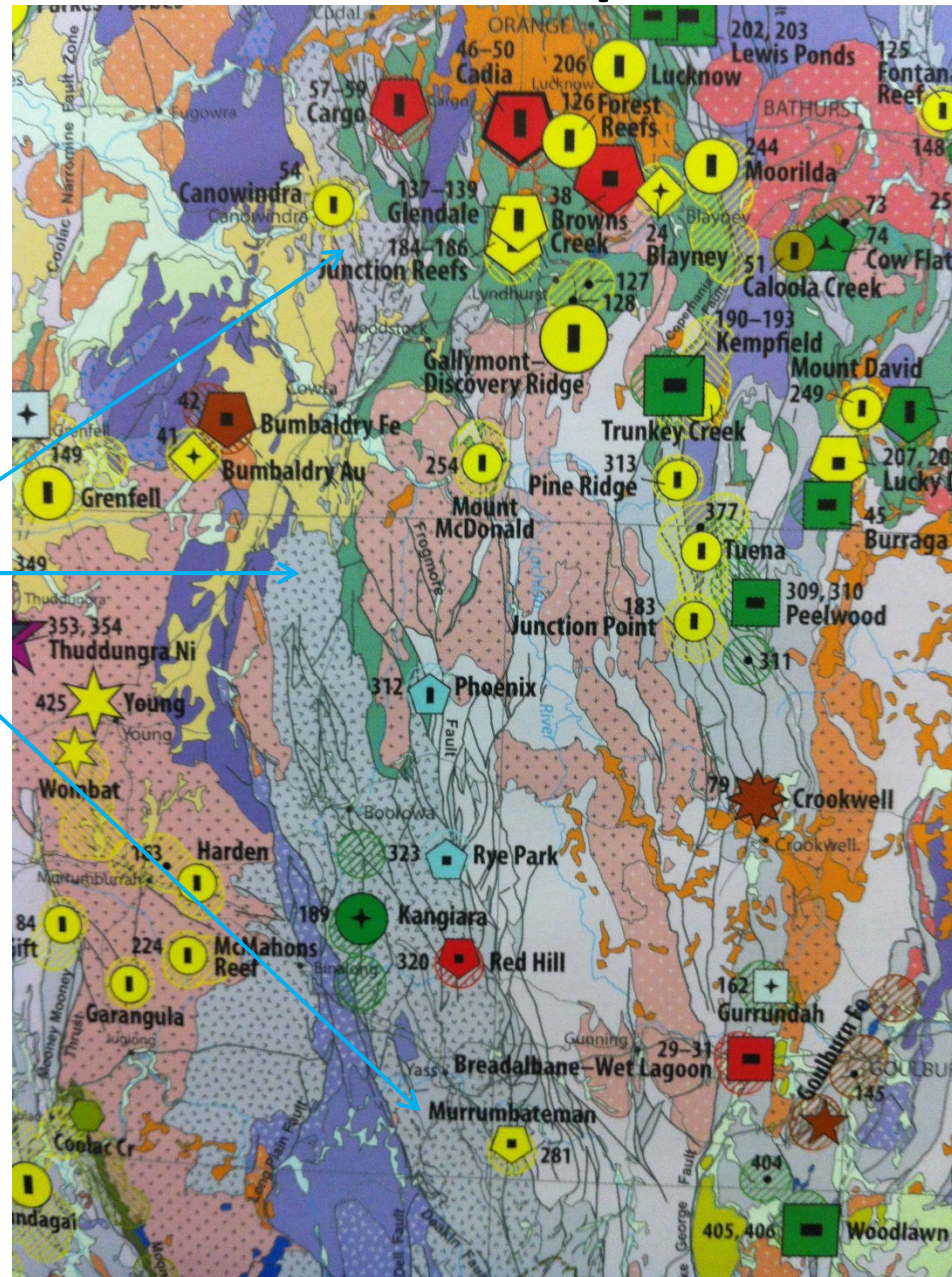






# Other Deposits

Silurian 'S-Type'  
Volcanics  
including CV



# Other Deposits

- Other deposits hosted within the meridional extents of the discussed Silurian S-Type volcanics include..
  - Rye Park W(Mo,Bi,Sn,mt,fluorite)
  - Kangiara Pb,Zn,Cu,Ag(Au,Bi)
  - Red Hill Cu,Au(Ag,Pb,Zn,mt,talc)
  - Murrumbateman Au(Bi,Ag)

# Sig. Previous Exploration

- 1980's at Sams Reef included
  - limited geochem (incl 304g/t Au from 'mullock dump')
  - 5 RC holes totalling 462m
  - Best intersection SRP2, 9m @ 2.1g/t Au
  - Work by Eastern Gold NL across selected parts of the CLW



# Eastern Gold NL

## Eastern Gold N.L.

### Prospectus

For an issue of 10,000,000 ordinary shares of 20 cents each at par payable in full on application.

All mineral tenements referred to in this prospectus have only been subjected to very preliminary investigation and accordingly these shares are of a speculative nature.

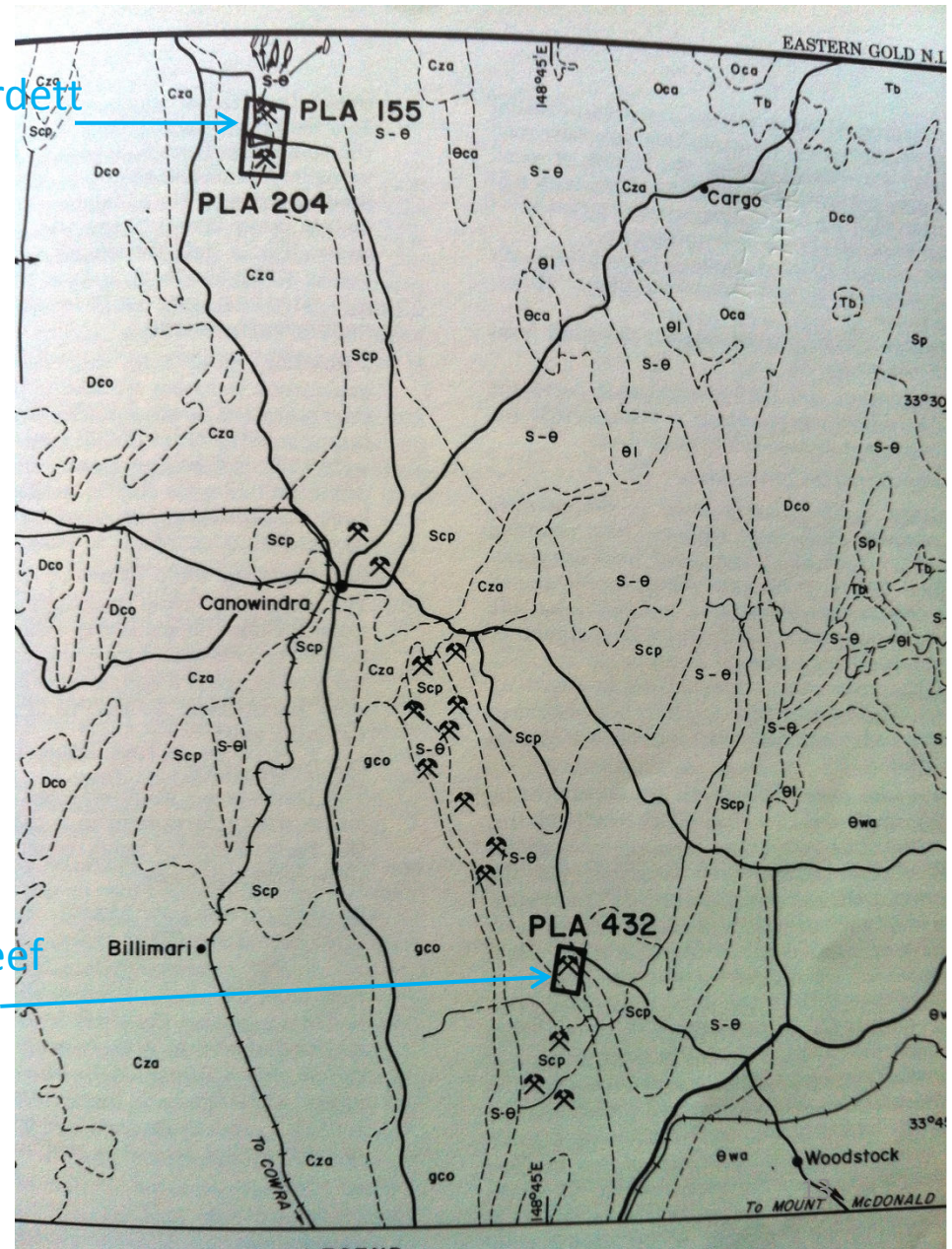
#### Underwriters

Hattersley & Maxwell  
105 Pitt Street  
Sydney, New South Wales 2000

10/01/2000  
(Members of The Sydney Stock Exchange Limited)

Lady Burdett  
Mines

Sam's Reef  
Mine



# Exploration by G&C



# G&C – early sampling 2005

SAMPLE NO.	AREA PROSPECT	ROCK DESCRIPTION	COORDINATES MGA 94	SAMPLE DESCRIPTION	ANALYTICAL RESULTS												
					Au (ppm)	Ag (ppm)	As (ppm)	Ba (ppm)	Bi (ppm)	Cu (ppm)	Hg (ppm)	K (%)	Mo (ppm)	Pb (ppm)	Sb (ppm)	W (ppm)	Zn (ppm)
7339	Gospel Oak Quarry	Rhyolitic tuff, sericitised and chloritised, scattered quartz-limonite veining.	659 012E 6 280 545N	4 pieces of angular float from 10m across rubble face E side upper bench	0.015	<0.2	25	70	<2	98	<1	0.31	1	44	<2	<10	80
7340	Gospel Oak Quarry	Rhyolitic tuff, sericitised, quartz-limonite veined.	658 977E 6 280 467N	Chips from several large boulders at S end of upper bench	0.011	<0.2	16	50	2	86	<1	0.24	1	25	<2	<10	45
7341	Gospel Oak Quarry	Rhyolite, sericitised, with quartz-geothite veining (some coarse and vuggy).	658 960E 6 280 489N	Pieces of rubble from 3m radius W batter of upper bench	0.010	0.2	18	50	3	198	<1	0.24	1	112	<2	<10	262
7342	Gospel Oak Quarry	Rhyolite, strongly silica-sericite-carbonate altered, with pyrite and quartz-carbonate-limonite veining.	658 969E 6 280 504N	Chips from boulders in pile (2 x 3m)	0.030	0.2	22	40	2	156	<1	0.18	1	57	<2	<10	64
7343	Gospel Oak Quarry	Rhyolite, sericitised, with quartz-limonite veining, some Cp in and close to veins.	658 952E 6 280 519N	Chips from rubble pile	0.005	1.1	19	60	6	382	<1	0.29	2	275	<2	<10	114
7344	Gospel Oak Quarry	Rhyolite, clay-carbonate-sericite altered, weathered, variably sheared, with some quartz-limonite veining.	658 946E 6 280 574N	Gouge from 1m wide N-S fault zone. N end of upper bench	0.002	<0.2	29	70	<2	24	<1	0.30	1	22	<2	<10	56
7345	Gospel Oak Quarry	Rhyolite, silica-sericite-carbonate altered, partly fresh, splashy disseminated Cp, Py, Ca very minor Gn, Sp, Cc and (?)stibnite. Some sulphide stockwork. (Petrology - Sample 9049)	658 917E 6 280 615N	S end of lower bench. Chips from rubble pile (5 x 2m area)	0.010	1.7	33	70	6	2930	<1	0.37	2	350	<2	<10	68
7346	Gospel Oak Quarry	Argillised tuff, sheared, goethitic, with calcite veinlets and vein quartz.	658 922E 6 280 625N	Several fragments from E end of intermediate flitch	0.005	<0.2	68	150	<2	269	<1	0.15	1	47	<2	<10	51

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# Exploration by G&C

focused elsewhere on EL's

Concerns included scale, apparent structural complexity, and lack of guidance from geophys. etc

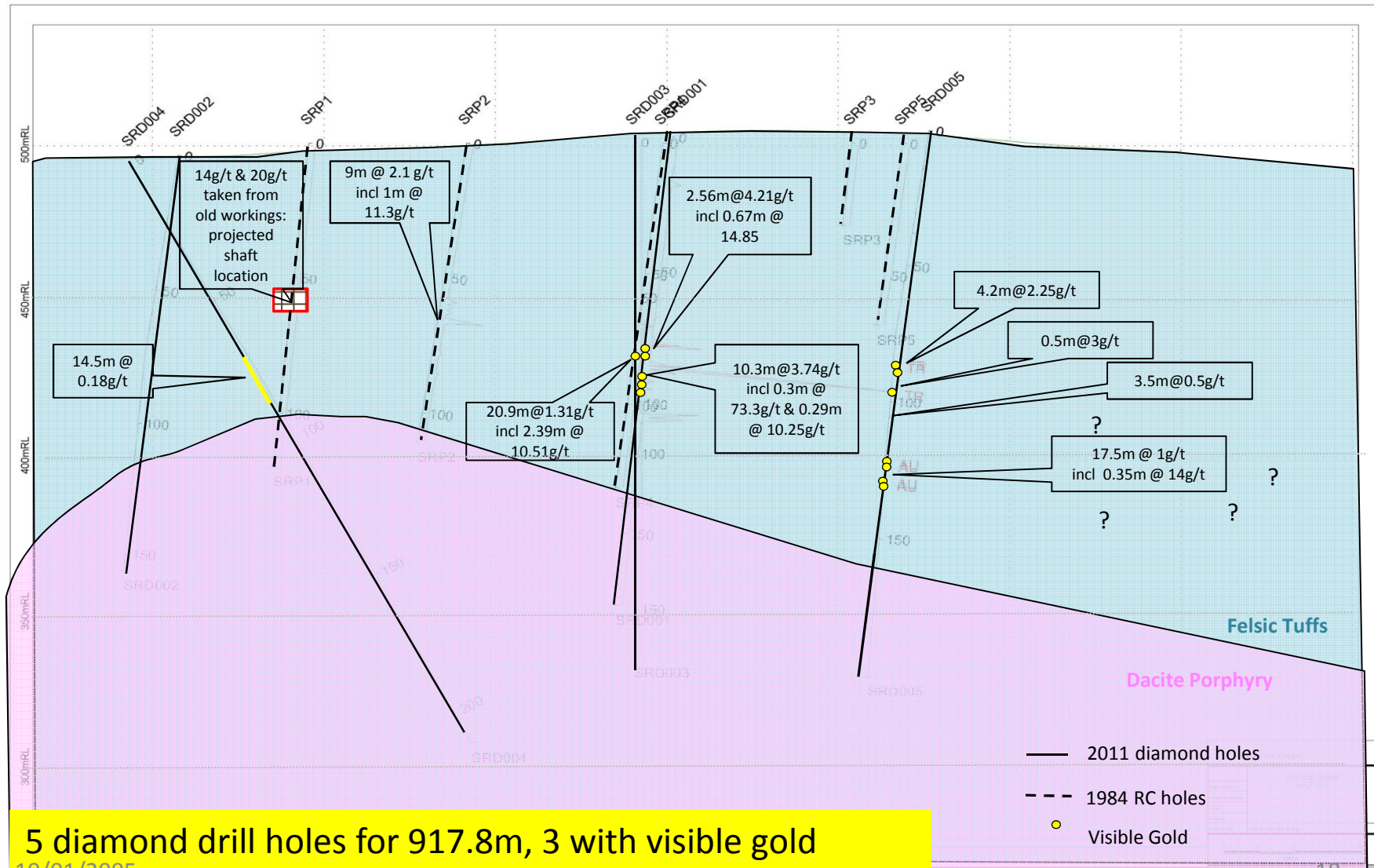
until decision to drill..



# CLW – Sam's Reef drilling 2011



# Sams Reef – Long Section



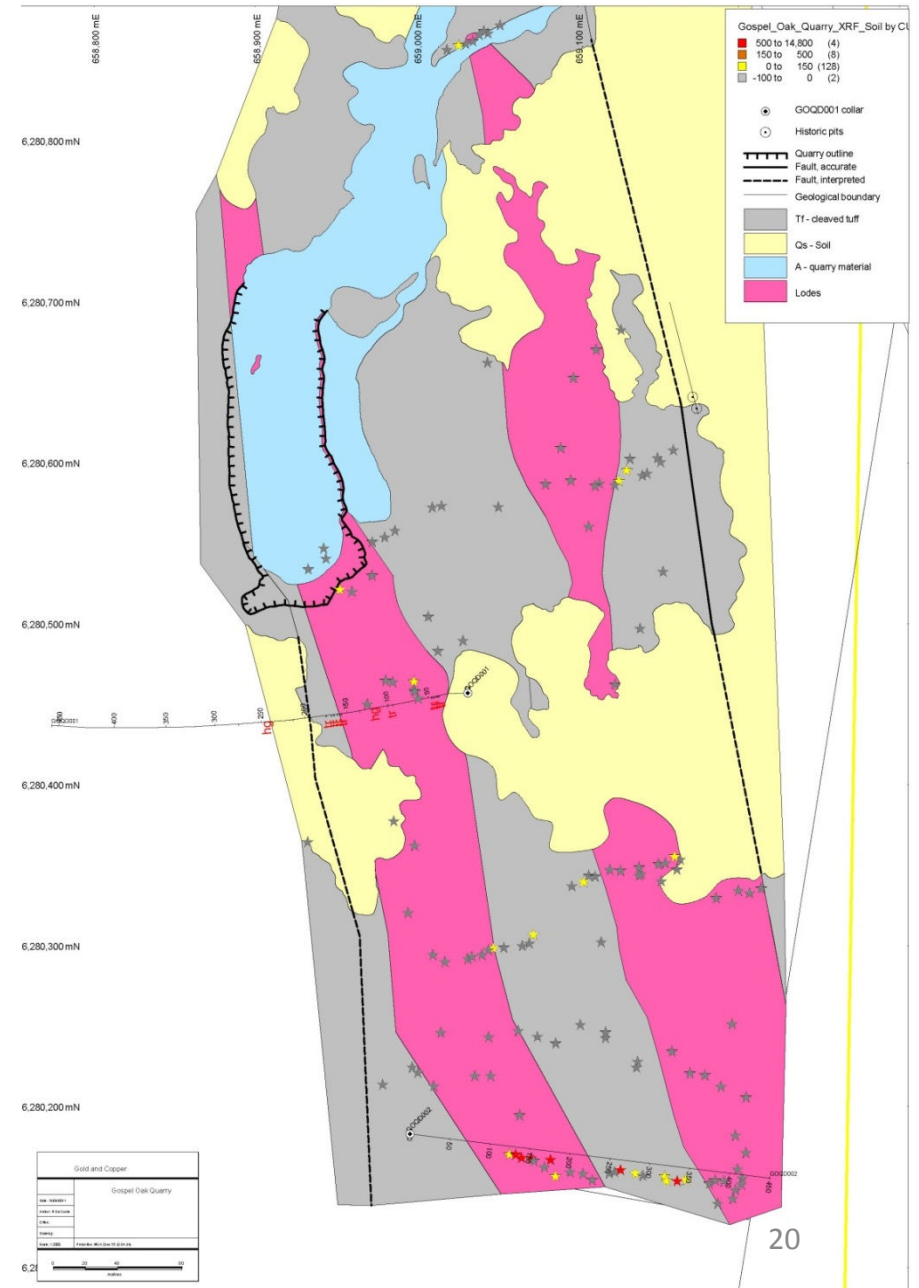


# CLW – M'chester Mine & Specimen Hill



# CLW – Gospel Oak Quarry (GOQ) Overview

- Sampling from Quarry face returned up to 1% Cu
- 2 x diamond holes completed
  - Returned significant chalcopyrite
  - Copper grades up to 3x background, but not ore grade
- Mapping and XRF soil survey
- Costeans revealed trace malachite and extensive quartz veining
- Veining and Cu mineralisation over >700m strike length
- Previously unrecognised Cu occurrence – not in any Dept databases.



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# CLW – Gospel Oak Quarry (GOQ)





# CLW – GOQ





# CLW – GOQ, 1.13% Cu (cpy)



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# CLW – drilled GOQD001 (456.8m)



- 150m+ chalcopryite from first diamond hole at Gospel Oak Quarry

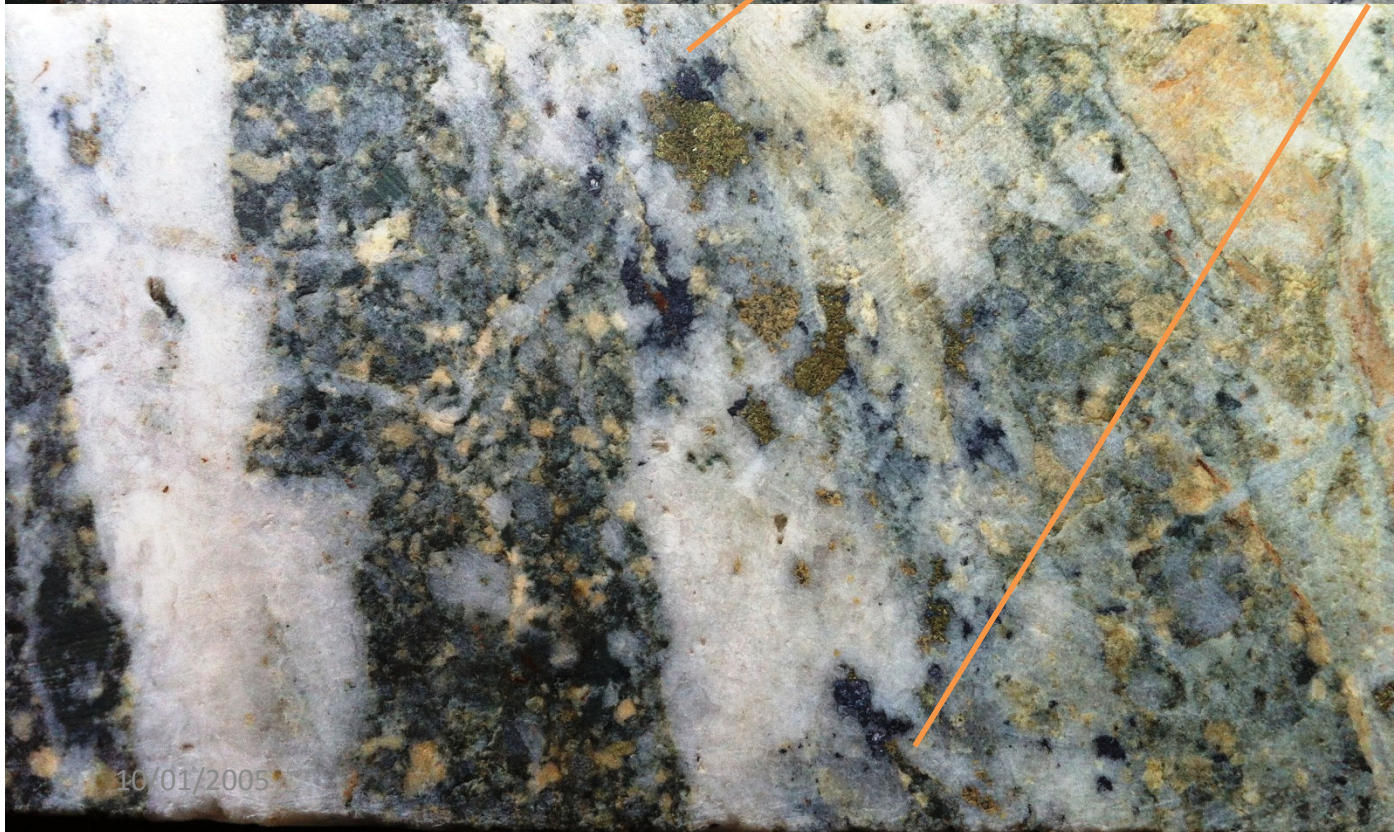


# CLW – mapped GOQ





# CLW – drilled GOQD002 (444.8m)



Au: 0.03ppm (max  
0.13ppm b/w  
77m - 78m)

Bi: 19ppm

Cu: 498ppm (Ave.  
b'ground CV's  
~20ppm)

Pb: 1940ppm

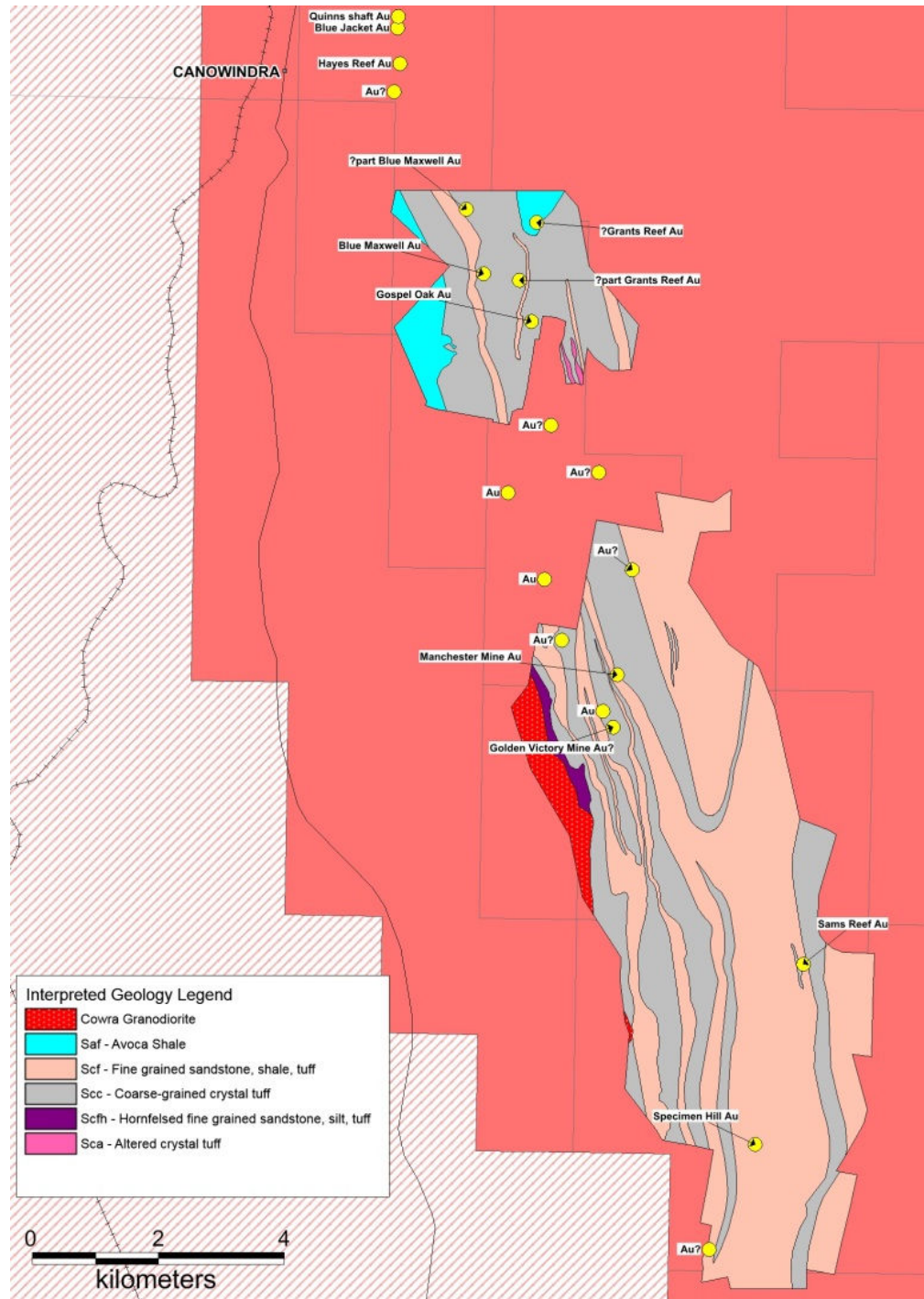
Zn: 935ppm<sup>26</sup>



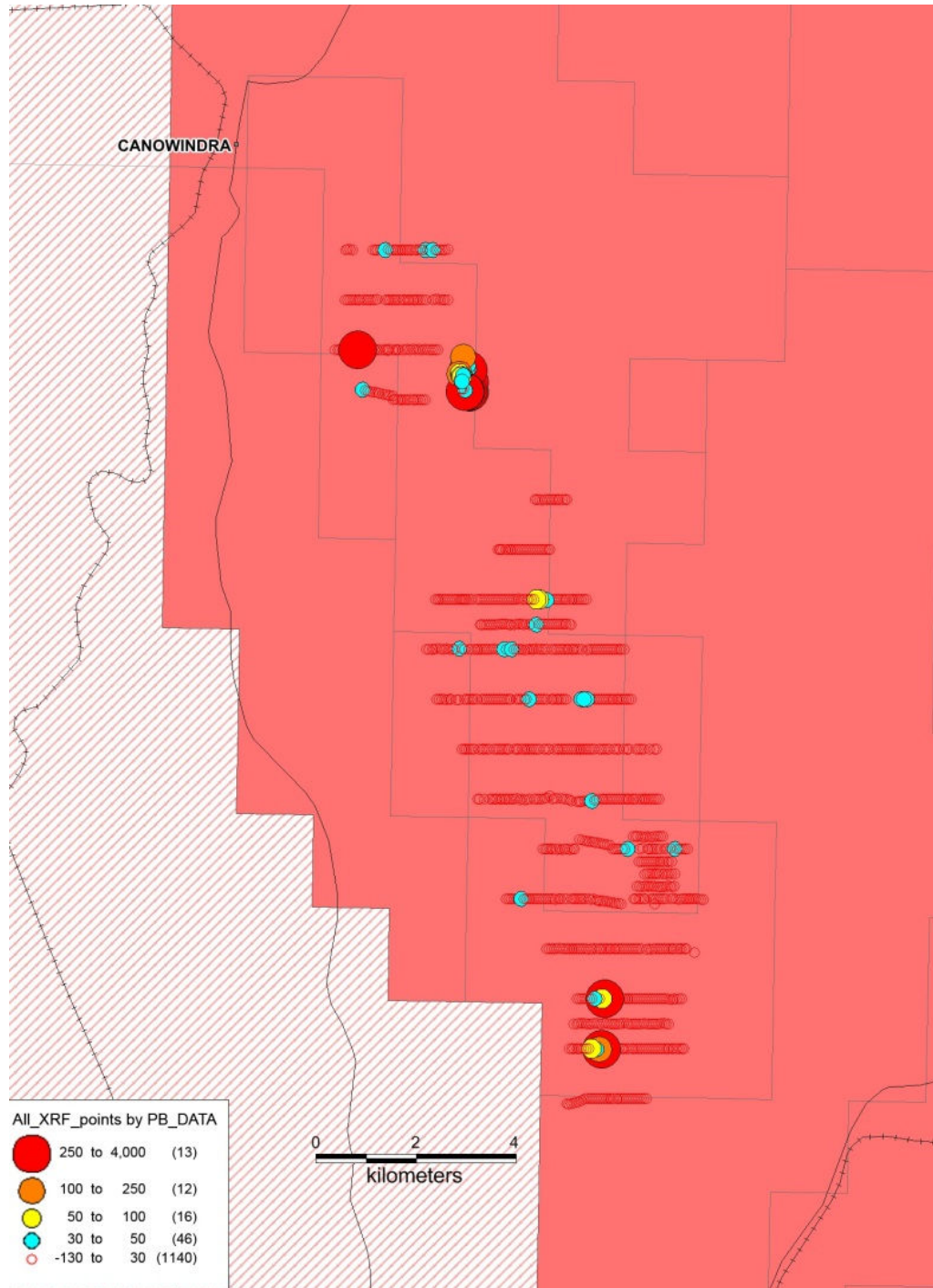
# CLW – Gospel Oak Quarry Gold Mine

## 25g/t Au



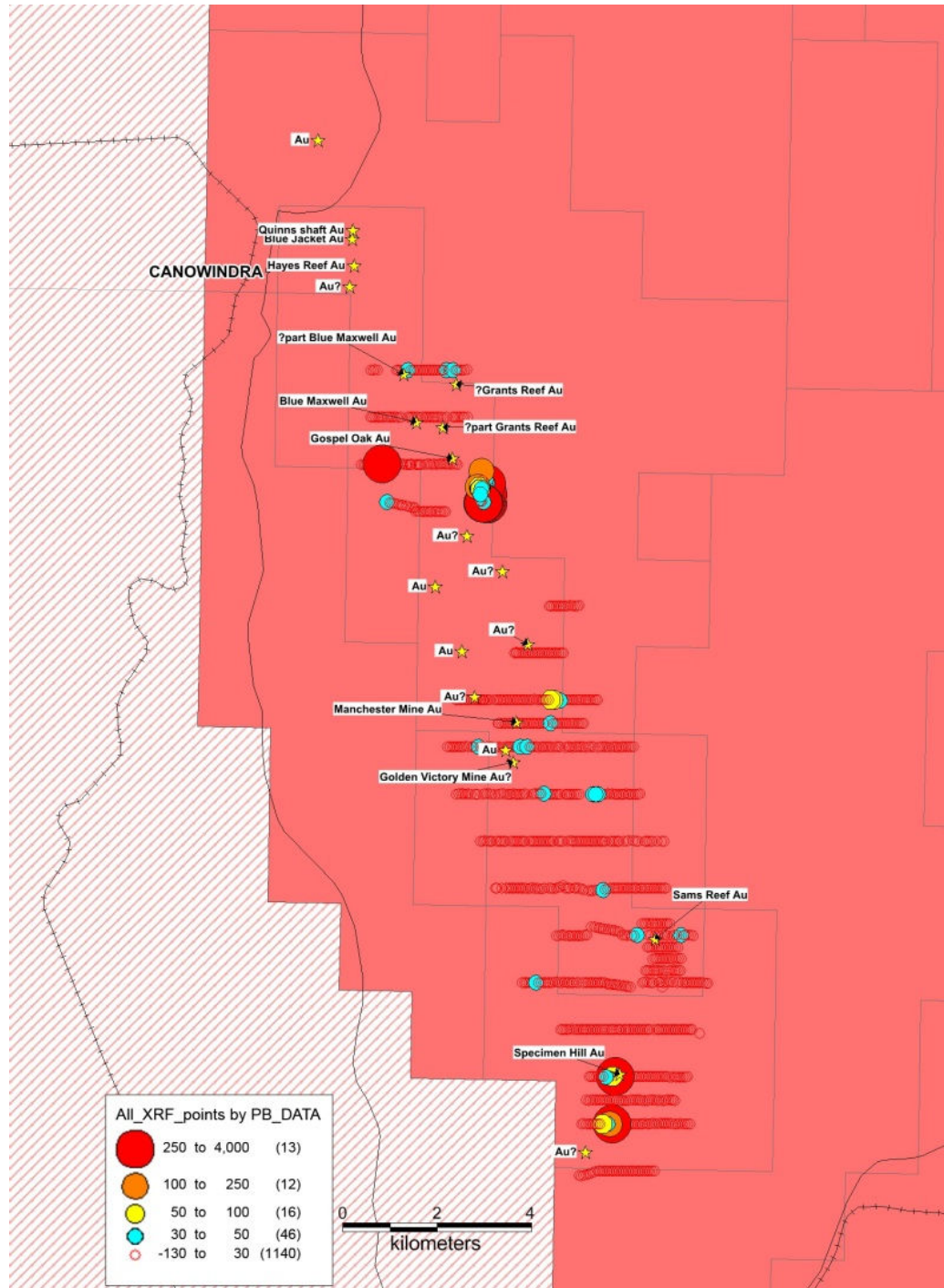






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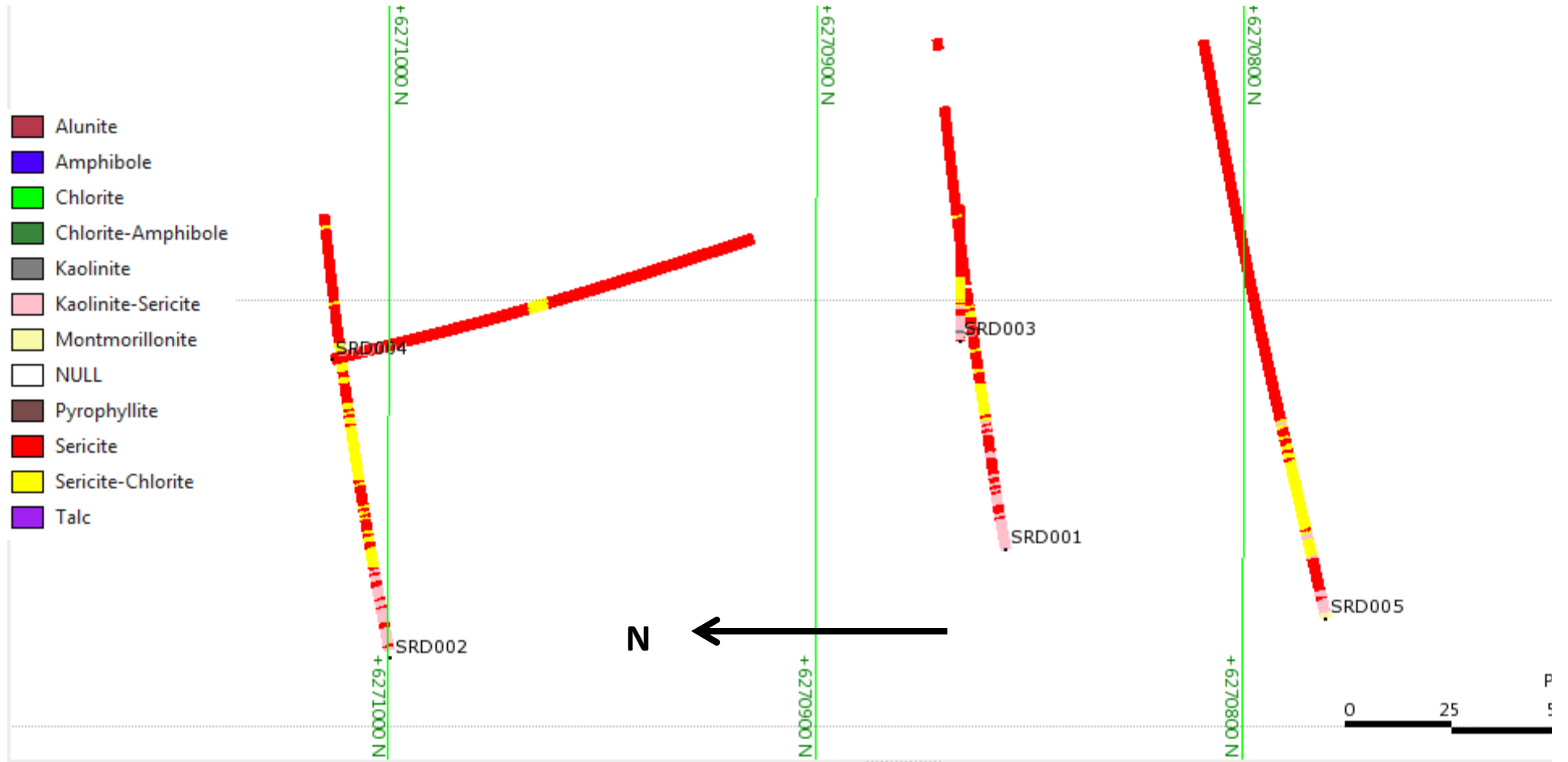
10/01/2005





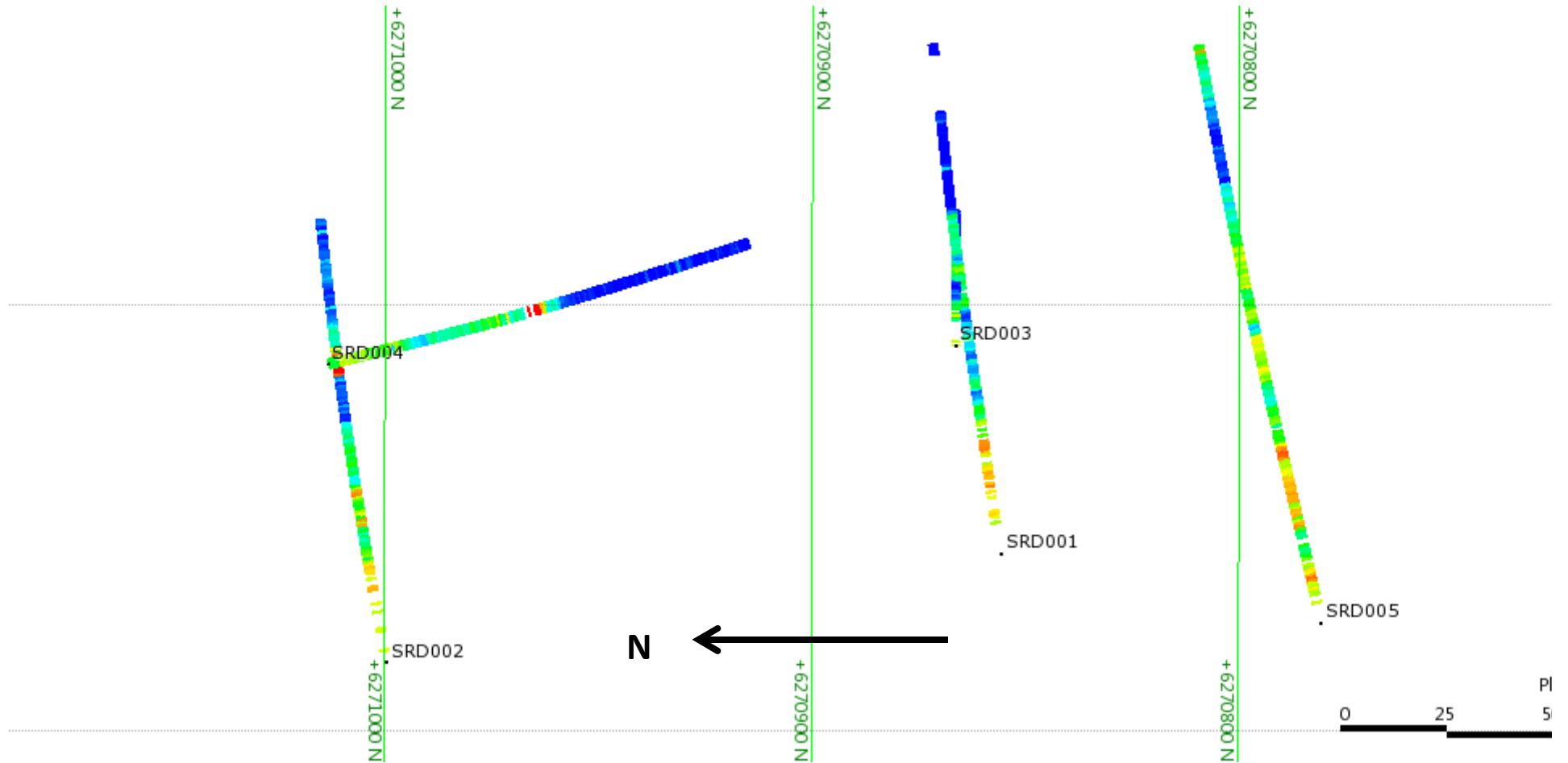
# Spectral Work by Scott Halley

# Sams Reef, ASD Mineralogy; Plan View





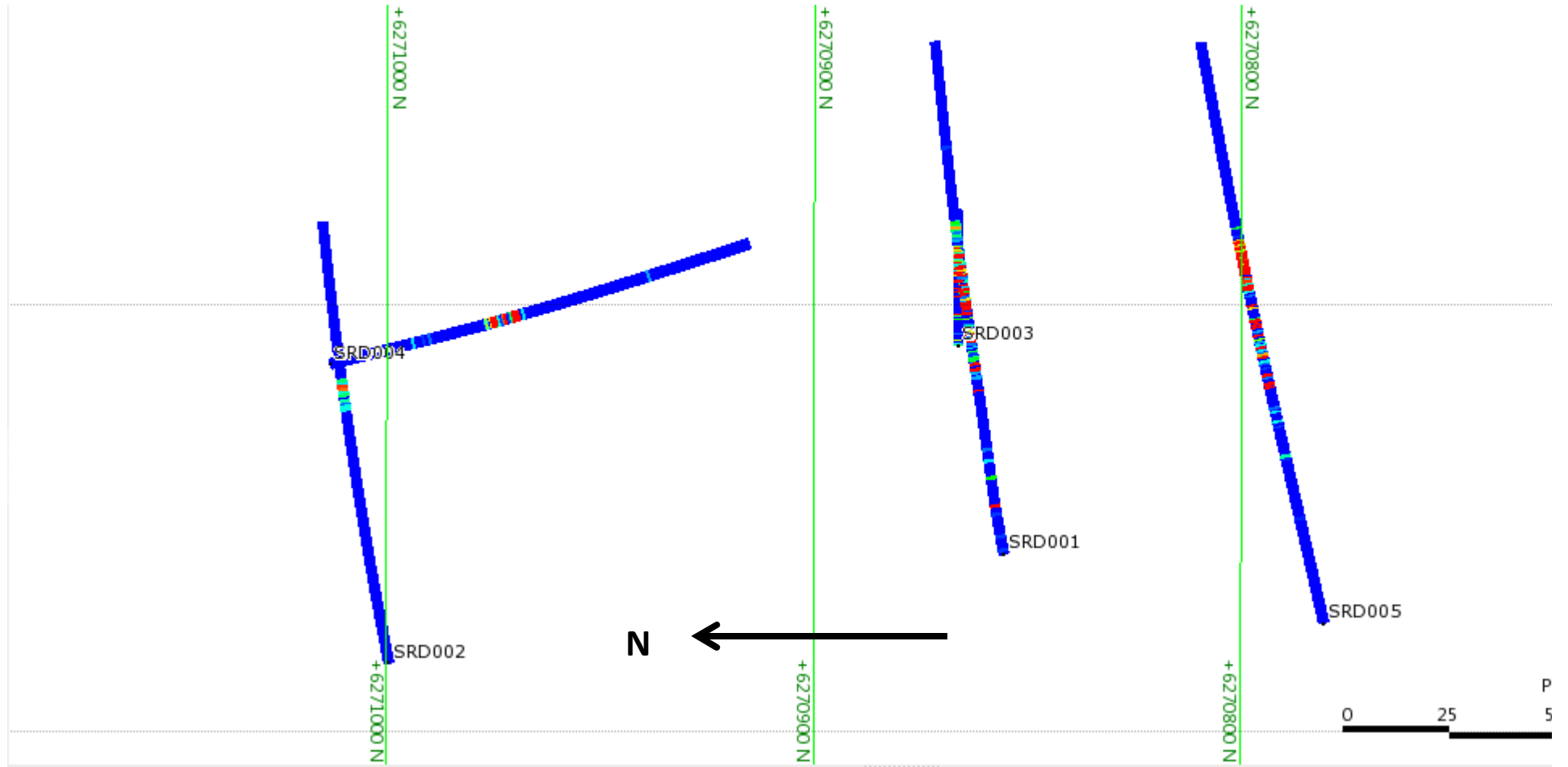
**Sam's Reef, Sericite Composition;  
Wavelength of sericite 2200nm feature;  
Blue<2200nm (acid) Red>2215nm (alkaline)**



# Sam's Reef, Gold Assays

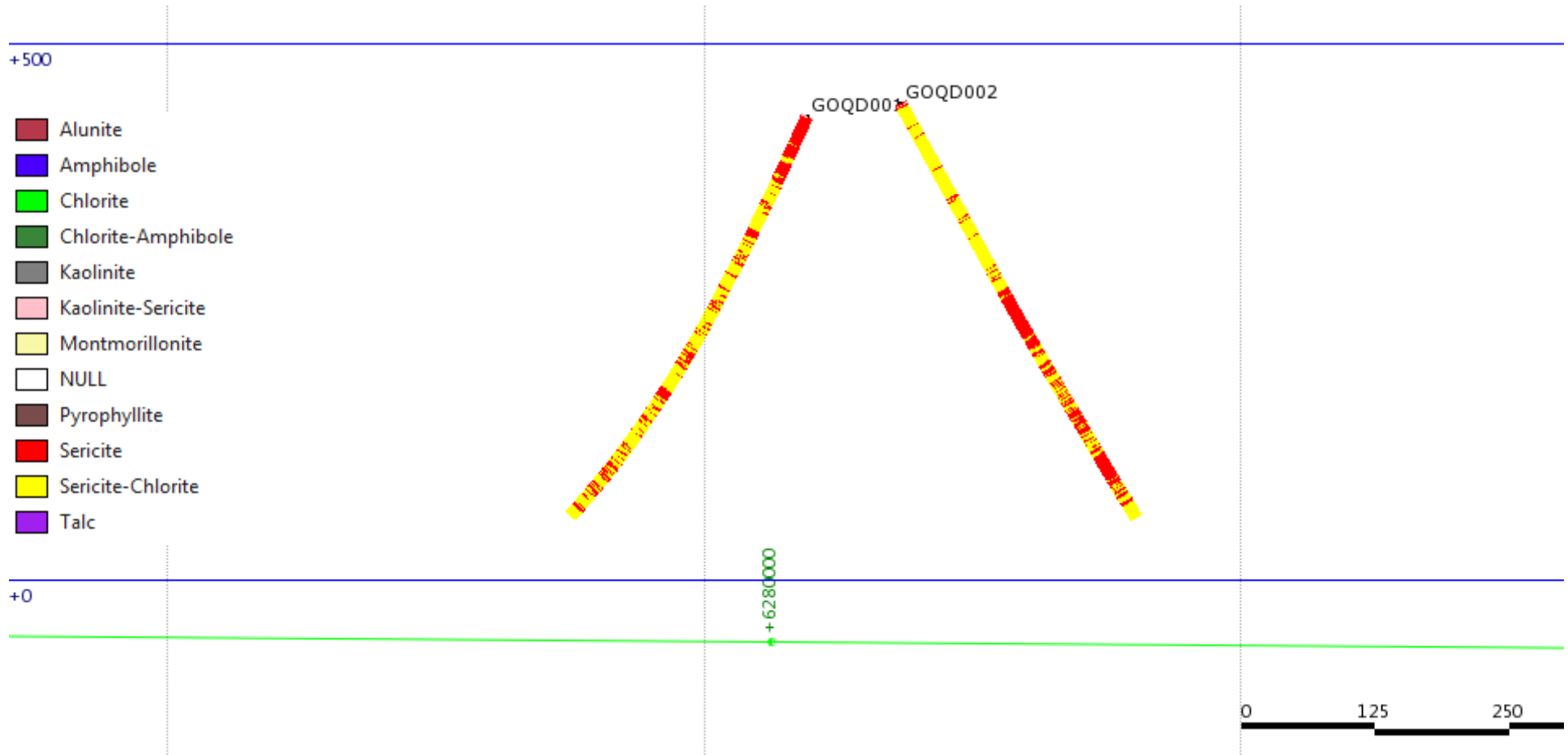
Blue <0.05ppm, Red >0.5ppm

Note how most of the gold is located in the transition from acid to alkaline.





# Gospel Oak Quarry, ASD Mineralogy; View looking to the NNE



**Gospel Oak Quarry, Sericite Composition;  
Wavelength of sericite 2200nm feature;  
Blue<2200nm (acid) Red>2215nm (alkaline)**





# CLW – Nth Canowindra

frequent Cu in small number of more  
'mafic' samples...





# CLW – Lady Burdett







# Observations

- Au without Cu in the Sth
- Cu without Au in the middle
- Au/Cu together in the Nth
  - Cu >> in mafic/dioritic material
- ?multiple events
- Simple metallurgy
- Some events Orogenic
- Some events hydrothermal
- Features indicate high level “epithermal” re: geol environment
  - Some placer gold, not large field(s)
  - Implications include prospectivity below, ie gold still in the ground
  - Interestingly old timers ?missed ore grade material at shallow depths
- Min occ NOT in the ‘classically’ described gn-cord-bi felsics

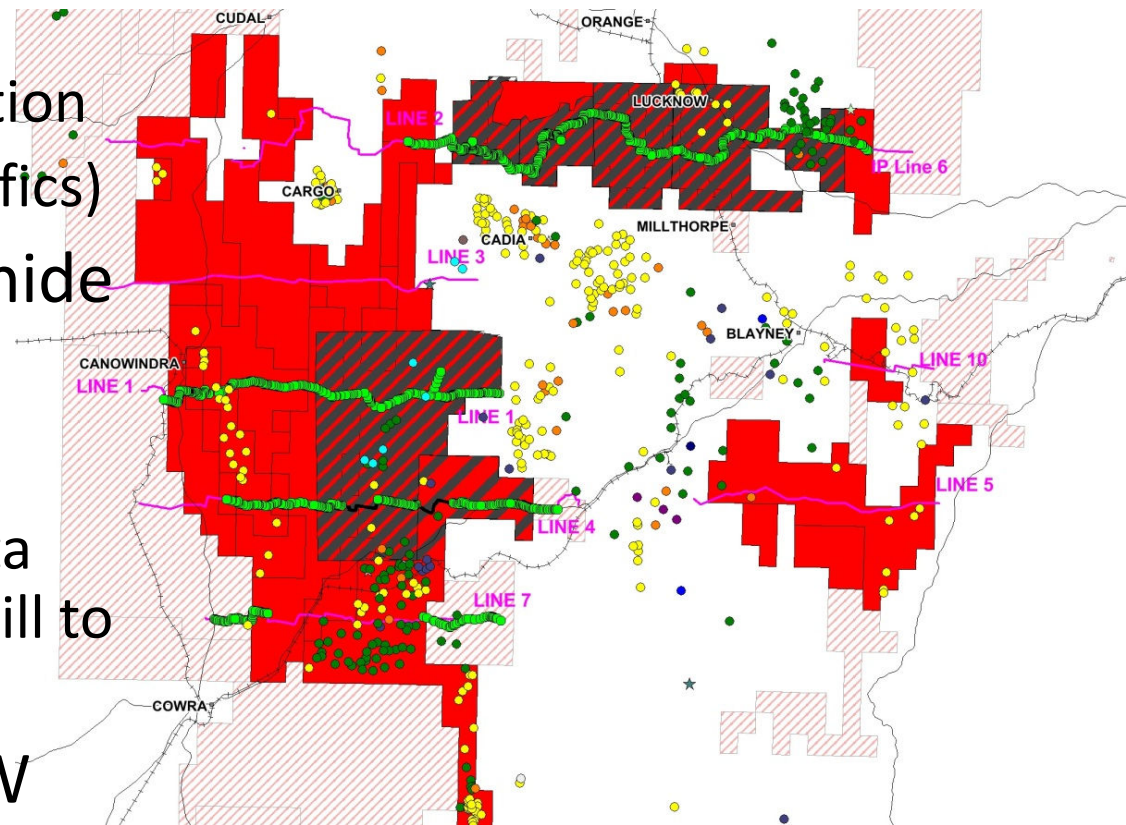


# Comments

- Drill out small resources that could be trucked to local plants...or
- Seek cash/resources to explore thoroughly and lift the lid on a potentially large/complex Au/Cu mineral belt..
- Maintain an open mind, these rocks were left for a long time without much exploration, seemingly due to a dogma that existed re: their apparent lack of prospectivity..

# Ongoing/Future Work

- Follow up geochem
  - XRF increase resolution
  - Aircore (look for mafics)
- GA-IP (look for sulphide systems)
- Drilling
  - Increase level of data about min occ (ie drill to nth of GOQ)
- Hons Thesis via UoW





# Marking out the next hole at Sam's Reef



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# Acknowledgments

- SMEDG for inviting G&C to talk,
- The Locke Bros for giving me something to talk about
- Our landowners for access
- My colleagues for their help and enthusiasm