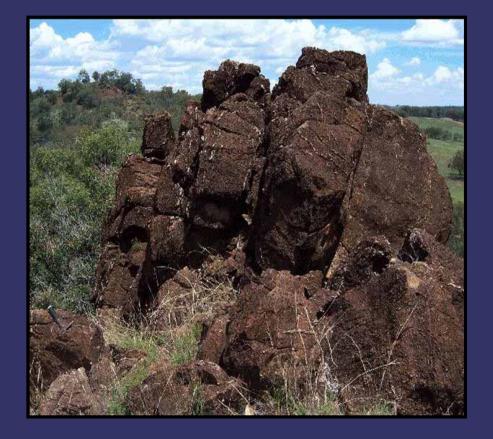


ASX Code: III



Gold discovery on the Peel Fault east of Barraba, NSW

Andrew White

Disclaimer

No representation or warranty is made as to the accuracy, completeness or reliability of the information contained herein. Any forward-looking information in this presentation has been prepared on the basis of a number of assumptions which may prove to be incorrect. This paper represents the views of the author and are published with the permission of Icon Resources Ltd, and should not be relied upon as a recommendation or forecast by Icon Resources Ltd.

Icon projects:

Tungsten Mt Carbine, NQ.

Gold: SW New England

Tin: Tara, Wagga tin belt



Mt Carbine W



Exploration on the Peel

Exploration to test a model (and gold anomalies)

Targeting work

Drilling

Conclusions

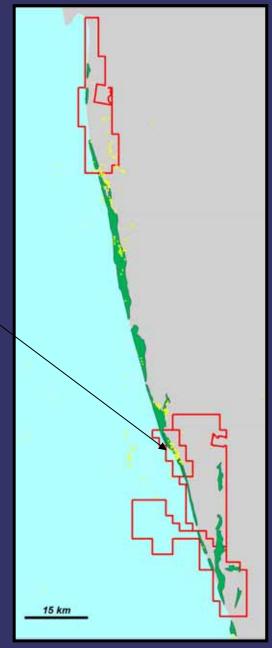
Icon gold prospects

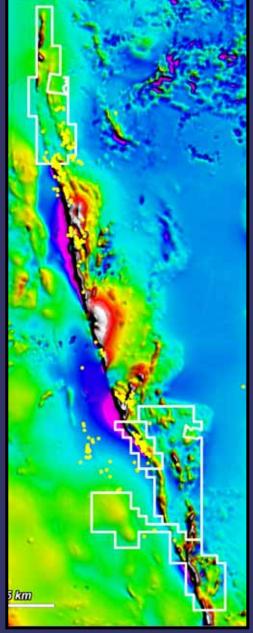
Peel Fault

Weabonga

Niangalla

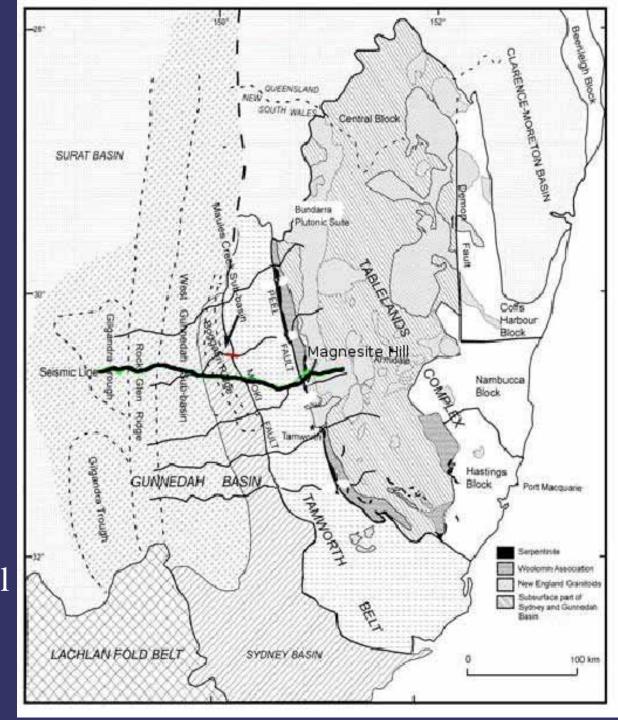
Upper Hunter





Location:

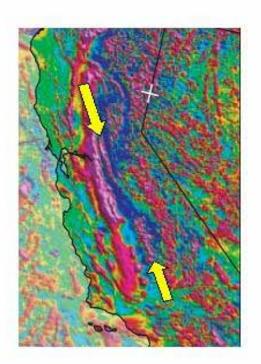
Magnesite Hill discovery, general geology of New England, location of Geoscience Australia (1990) seismic transect and Guo et al (2006) geophysical transects.

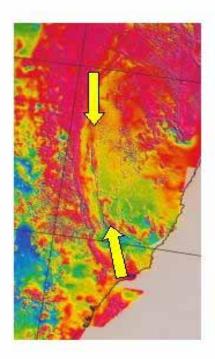


Greenstone Belt model for gold exploration

- Half the world's gold comes from Archaean greenstone belts.
- Greenstone gold is not confined to Archaean eg.,
 Mz Californian Motherlode (3800 tonnes Au).
- Gold associated with carbonate alteration of mafic and ultramafic rocks.
- Alteration signified by fuchsite, ankerite, sericite, quartz, pyrite, hematite alteration (listwanite)
- Gold late, with qtz, py, asp, wherever space existed.

Comparison of GSB and Californian Motherlode belt





Comparison of Motherlode California (left) and Peel Fault, NSW., each located east of a major magnetic ridge (rift core?), and marked by a magnetic high on a shear fault >500km long.

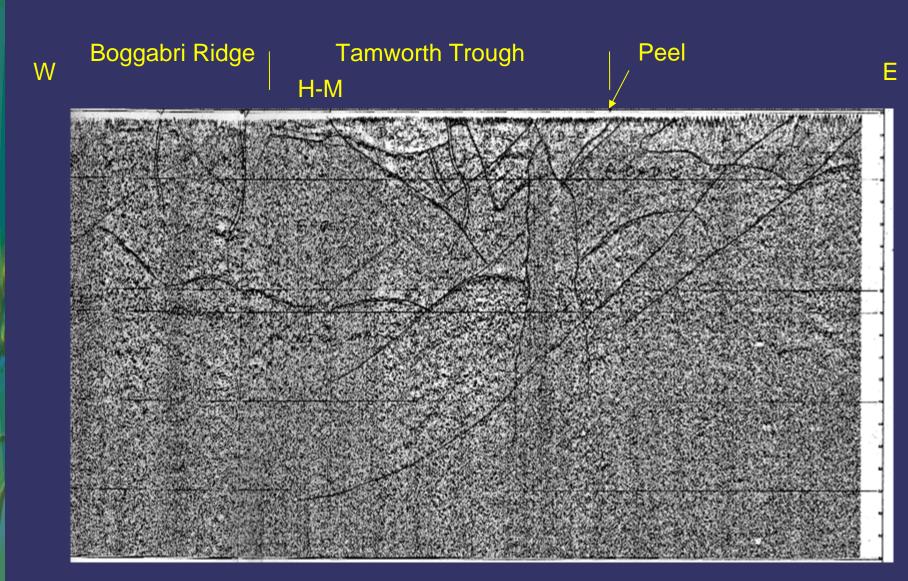
The Peel Fault

- Deep crustal seismic indicates Peel is a westdipping listric fault tapping the mantle.
- Range of partly serpentinised intrusive types
 (?layered ultra mafics) occurs along the fault.
- Peel separates mid to late Devonian turbidites/marine delta sediments on the west from ?Cambrian - ?Silurian deep sea radiolarian cherts and pillow lavas on the east.
- Part of surmised "basin and range" tectonic setting.

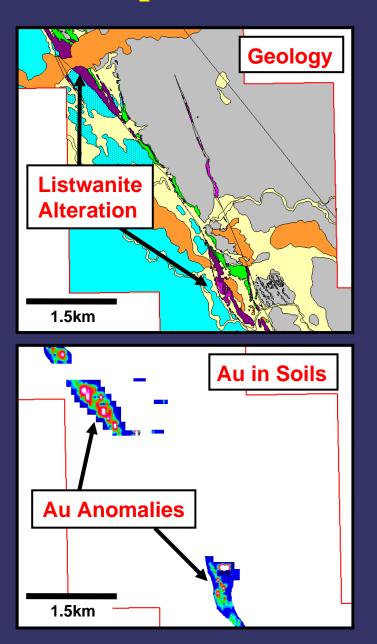
The Peel Fault

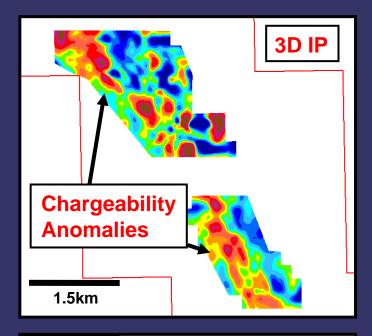
- Probable 100's km sinistral transcurrent displacement on Peel.
- Moved until at least late Permian, maybe early Triassic.
- Always thought to be east dipping thrust.
- Little explored only 40 shallow drill holes over
 100km strike length north of Attunga.
- Numerous >100yo gold workings in close proximity to Peel, one mining claim still producing (?) at Bingara.
- Historically, produced ~11 tonnes of gold.

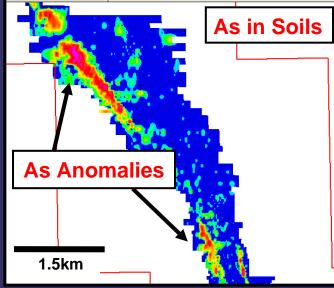
GA Seismic section – evidence of true nature of Peel Fault



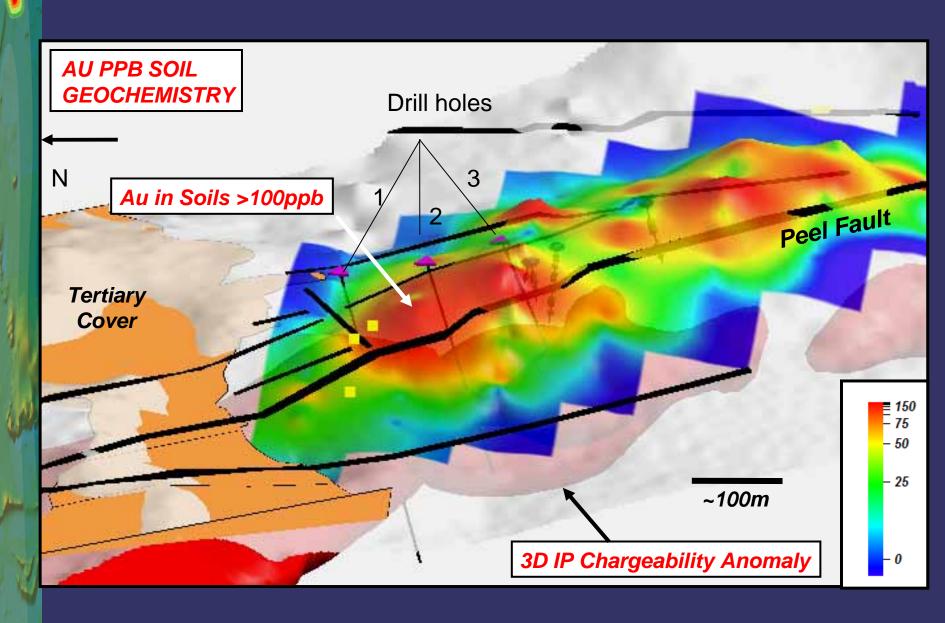
Exploration Results at Magnesite Hill



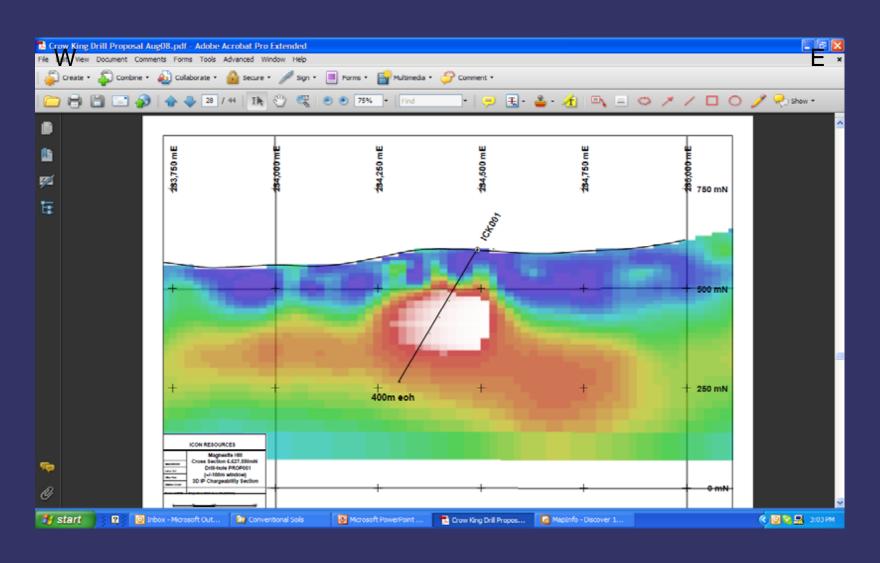




Magnesite Hill Au Prospect



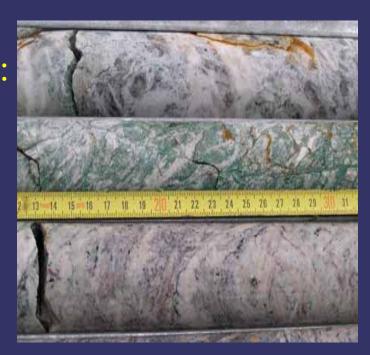
Magnesite Hill Prospect IP





Serpentinised harzburgite: talc/serpentine/sericite.

Carbonate altered serpentine: listwanite – fuchsite, ankerite, quartz, hematite, sericite.





Peel Fault: gouge ~20m wide, carbonaceous rock flour with bleached listwanite fragments

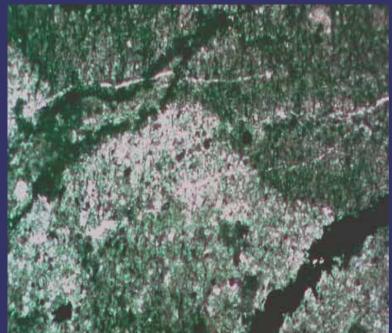
Dykes intruding fault: ?mafic to intermediate, brecciated, sericite/qtz/biotite/pyrite alteration



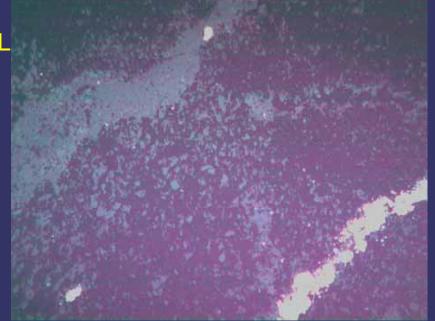
Devonian siltstones: intruded by dyke, crackle brecciated, qtz, py-ser veining and sericite alteration.



TPL



RPL



Drilling results

- 3 holes, drilled at 50⁰ towards 235⁰ for total 684m.
- 8m @ 1.27g/t Au in hole 1 from 140m (54m @0.45g/t from 117m).
- 14m @ 1g/t Au in hole 2 from 137m incl 2m @ 3.69g/t from 139m.
- The gold is in the altered Devonian sediments:
 Carlin style mineralisation of carbonate-rich,
 carbonaceous sediments.

Implications

- Greenstone gold might not be the only model to test on the Peel.
- Listwanites are Late Permian or Early Triassic at Nundle (Ashley & Brownlow, 1993).
- The fault gouge contains listwanite fragments: last movement on fault post Early Triassic.
- The phyllic altered dykes clearly post-date major movement on the fault, and could be associated with post orogenic porphyry style mineralisation.
- The Devonian is carbonate-rich, carbonaceous.
- Ideal host for Carlin-style gold mineralisation.

Future

- Icon has extensive ELs and applications north from Attunga.
- With this encouragement, planning expanded exploration program of
 - Drilling at Magnesite Hill to extend discovery
 - Other tenements: Detailed mapping, geochemistry (Niton) for pathfinder elements Sb, As, Hg, Bi, plus gold assays
 - Drilling