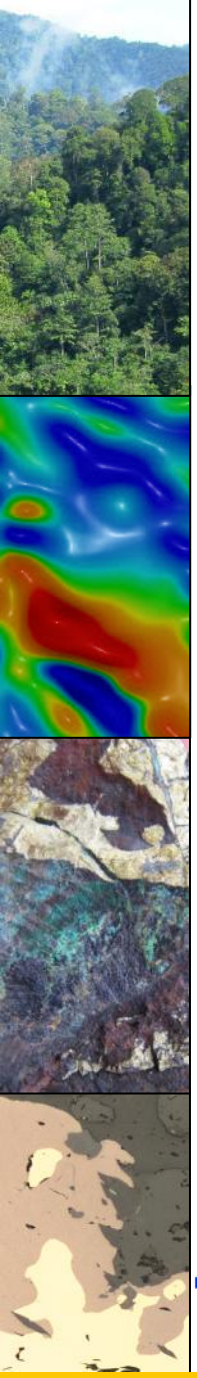


Integrating Exploration Data to Develop and Modify Exploration Models: Case Studies from two Sites in Indonesia. Implications for Exploration.

Neil Rutherford

Rutherford Mineral Resource Consultants

Visiting Fellow, School of BEES, UNSW

RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

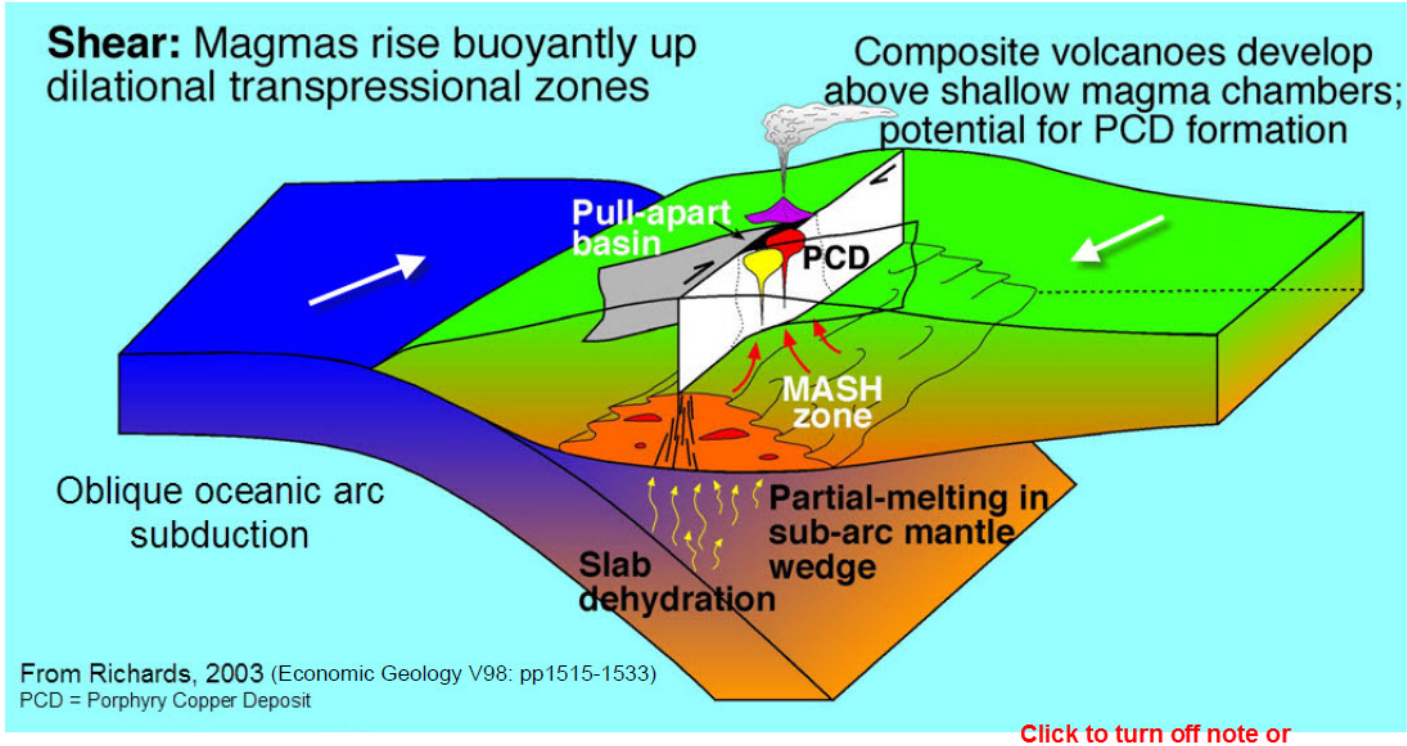
UNSW AUSTRALIA

Acknowledgements

The management of Prosperity Resources Limited and Paramount Mining Corporation, Perth are acknowledged and thanked for giving permission to use exploration data from their project in Southern Aceh, northern Sumatra and West Java for this presentation.

The field exploration was undertaken by a small group of dedicated Indonesian and expatriate geologists and assistants who accepted the struggle and found satisfaction and reward in seeing discovery of new or significant extensions to bodies of mineralisation.

click to view presenter notes



Click to turn off note or just go to next slide

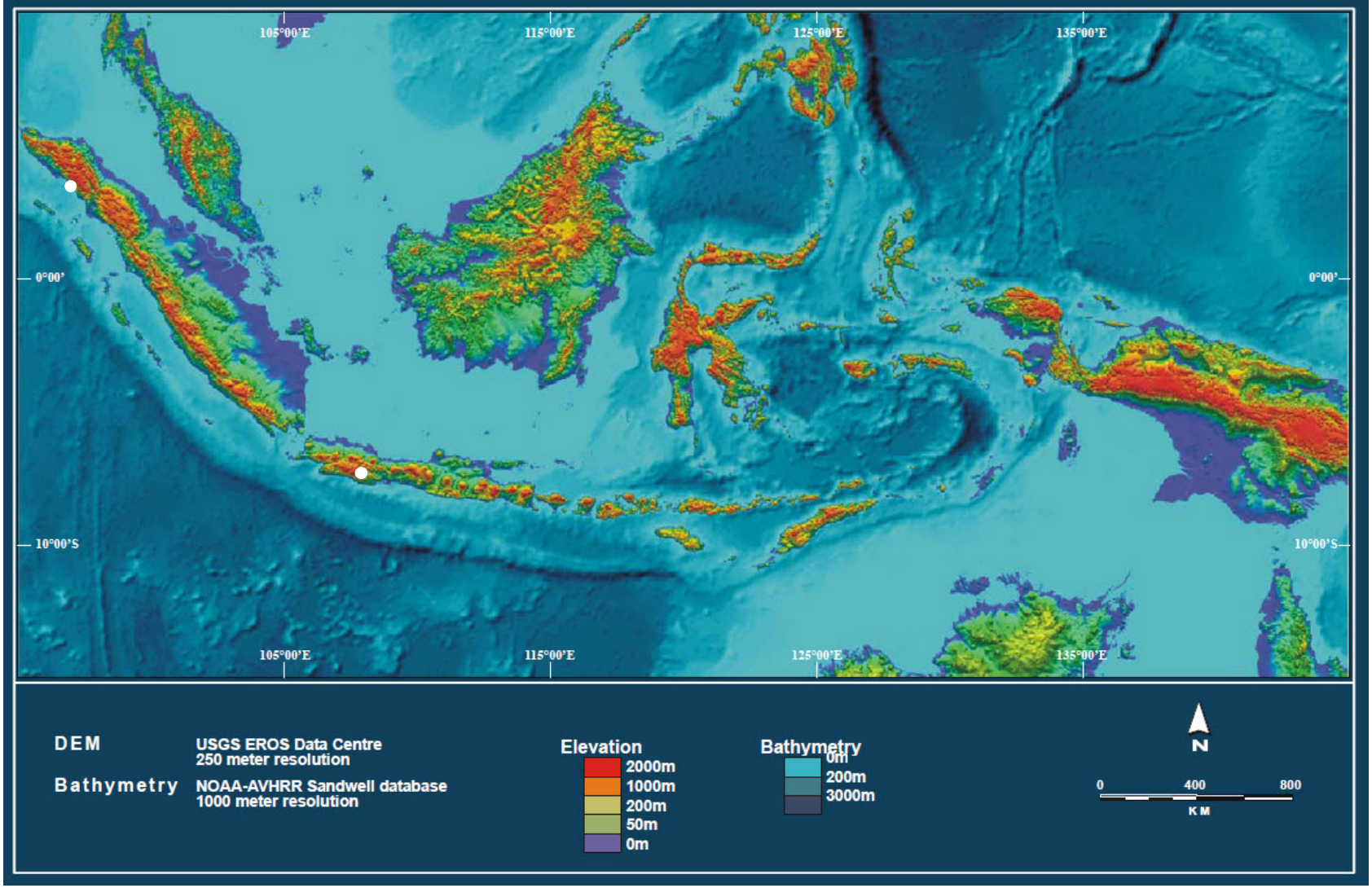
Presenter
1/11/2014 3:52:51 PM

Scroll through notes

with the increasing range of experience and interpretive skills the explorationist gains over time. It is important to vary the model to fit the field data, not try to force that data to fit a model picture. It may be important to abandon one model regardless of how strongly pushed by management or others when facts

Displaying presenter notes in PDF file – these can be ignored or opened as shown – not all slides have notes, only those with small icon top left corner of slide.

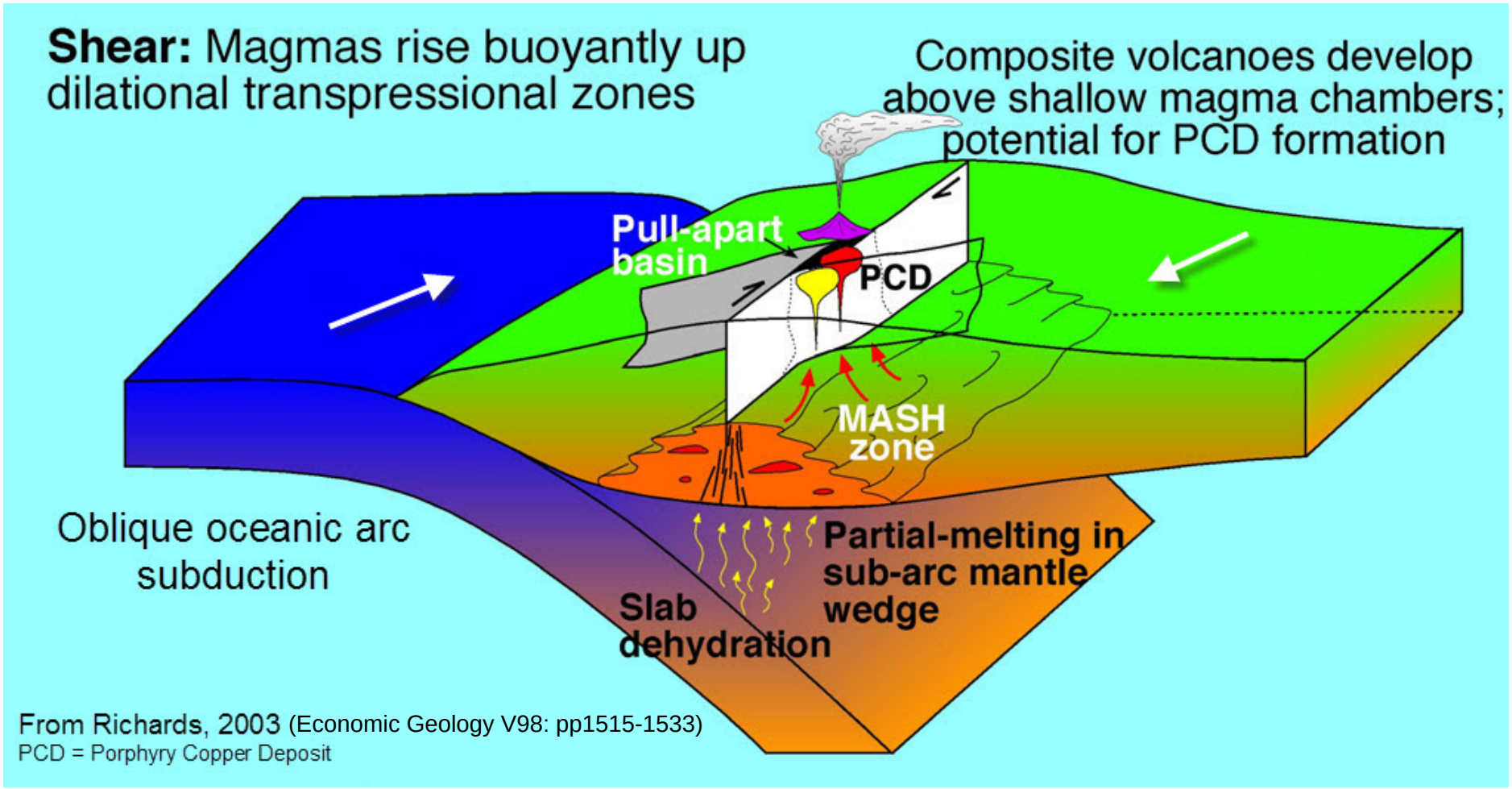
Digital Elevation Model and Bathymetry of Indonesia



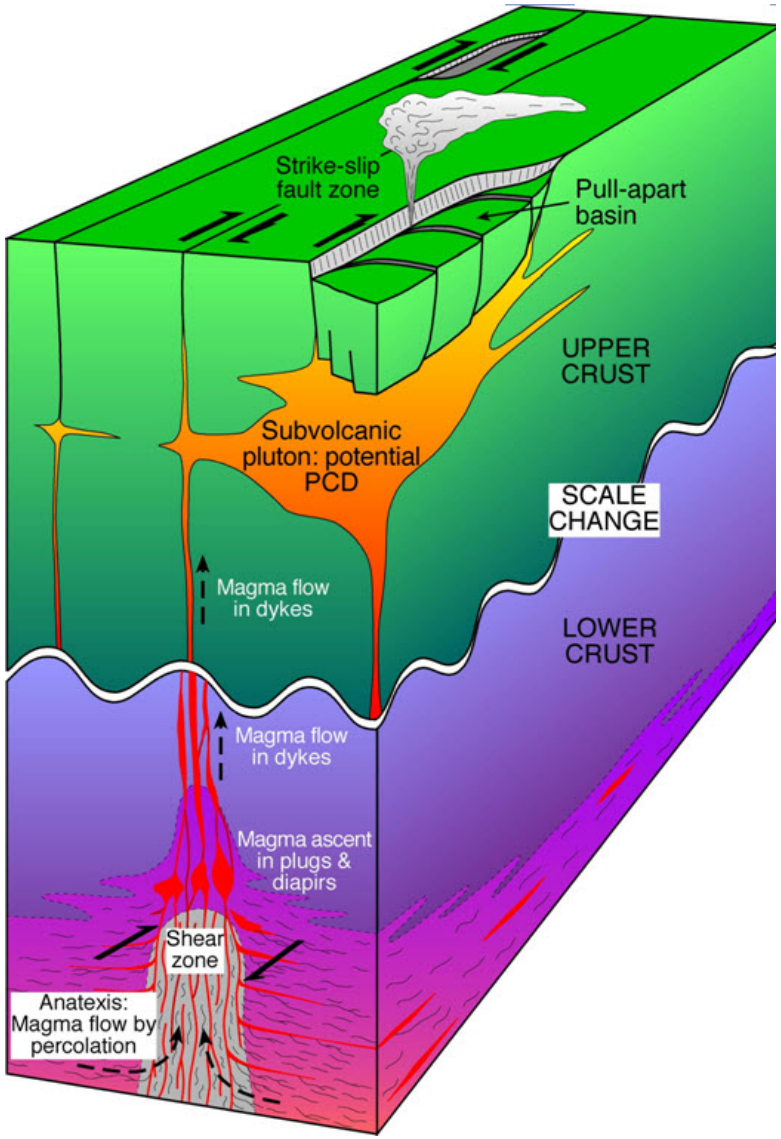
The Indonesian Archipelago

RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

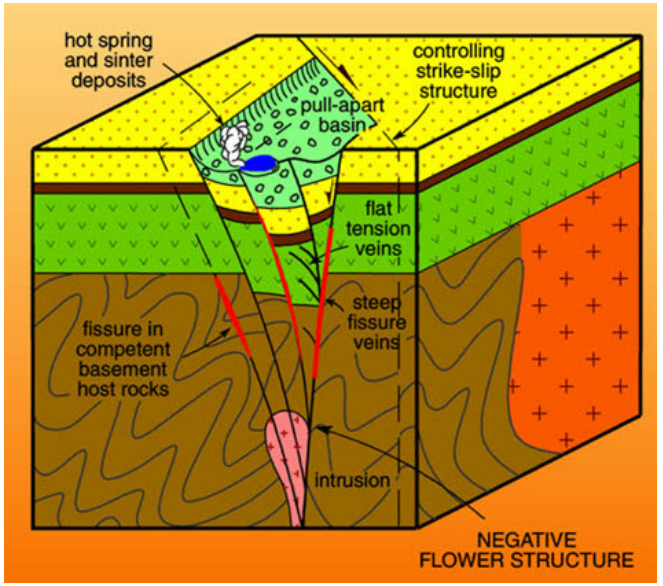
UNSW AUSTRALIA

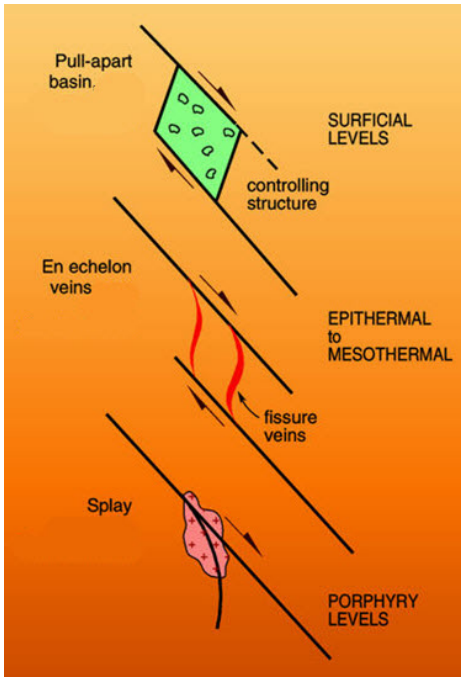


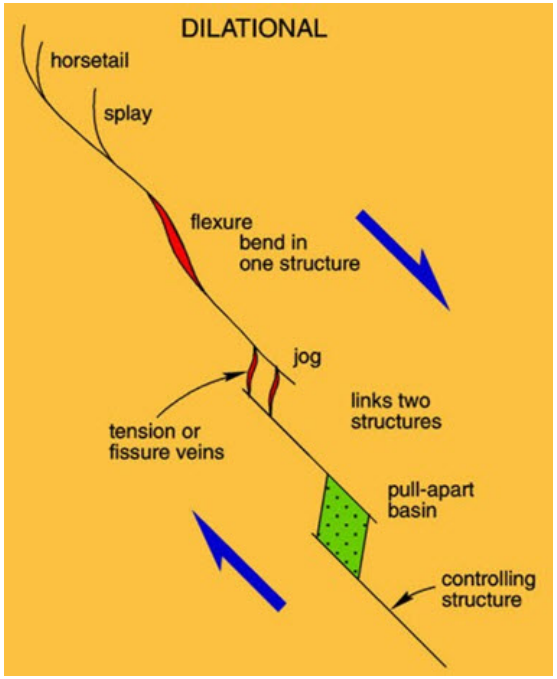
Subduction Zones & Island Arc Model Setting
We start learning and exploration with conceptual models



From Richards, 2003
Economic Geology V98: pp1515-1533
(PCD = Porphyry Copper Deposit)

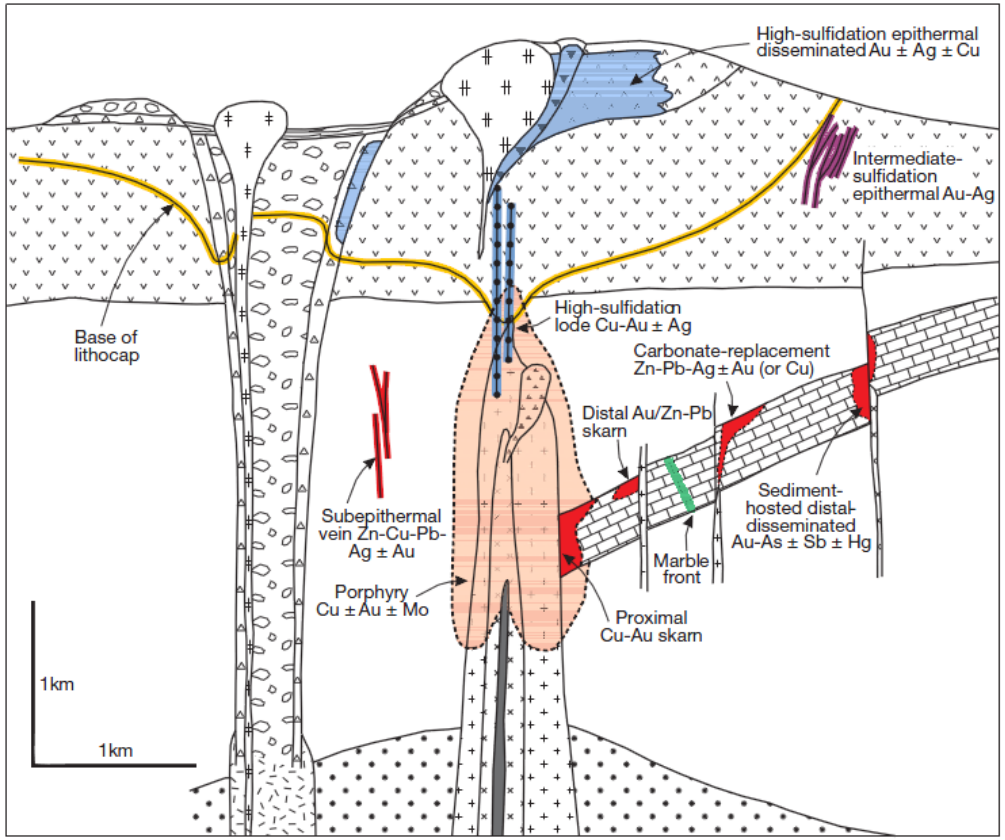


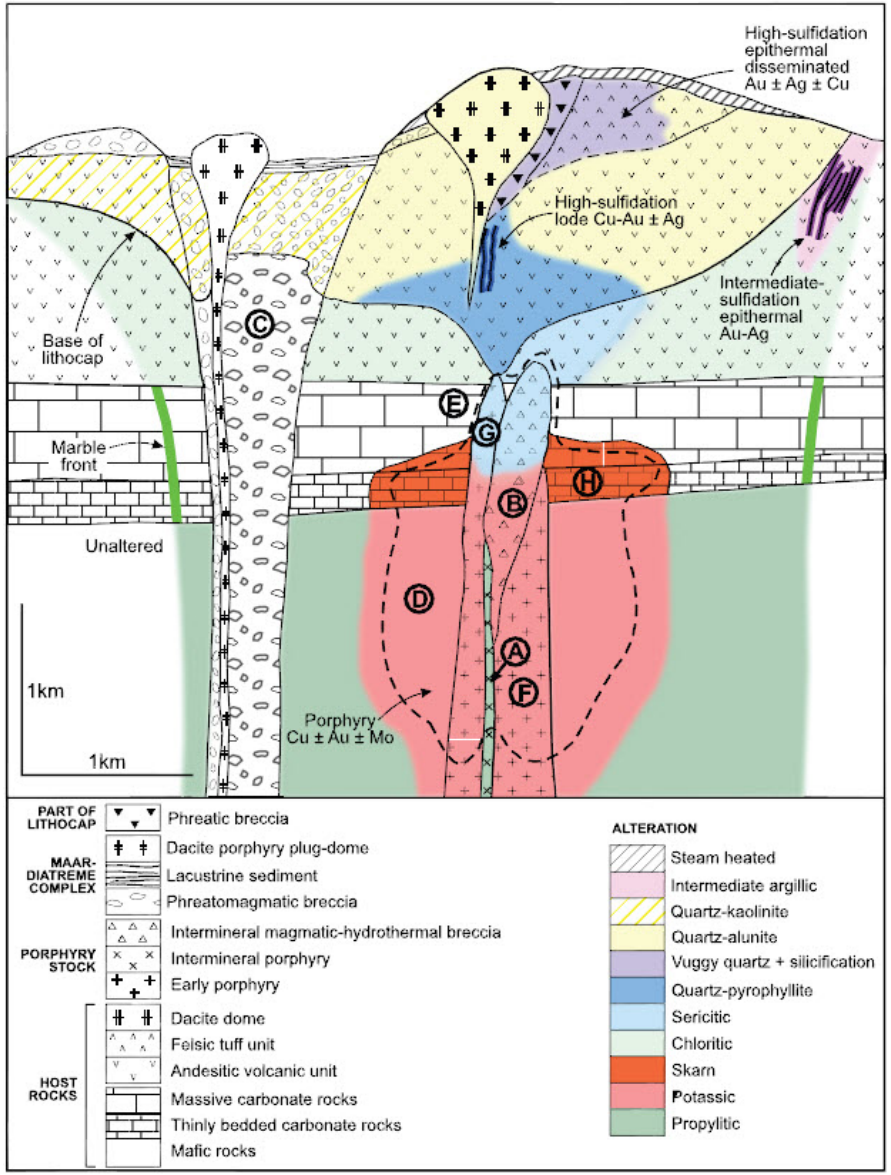




From Corbett & Leach

Expressions of structural host sites for mineralisation

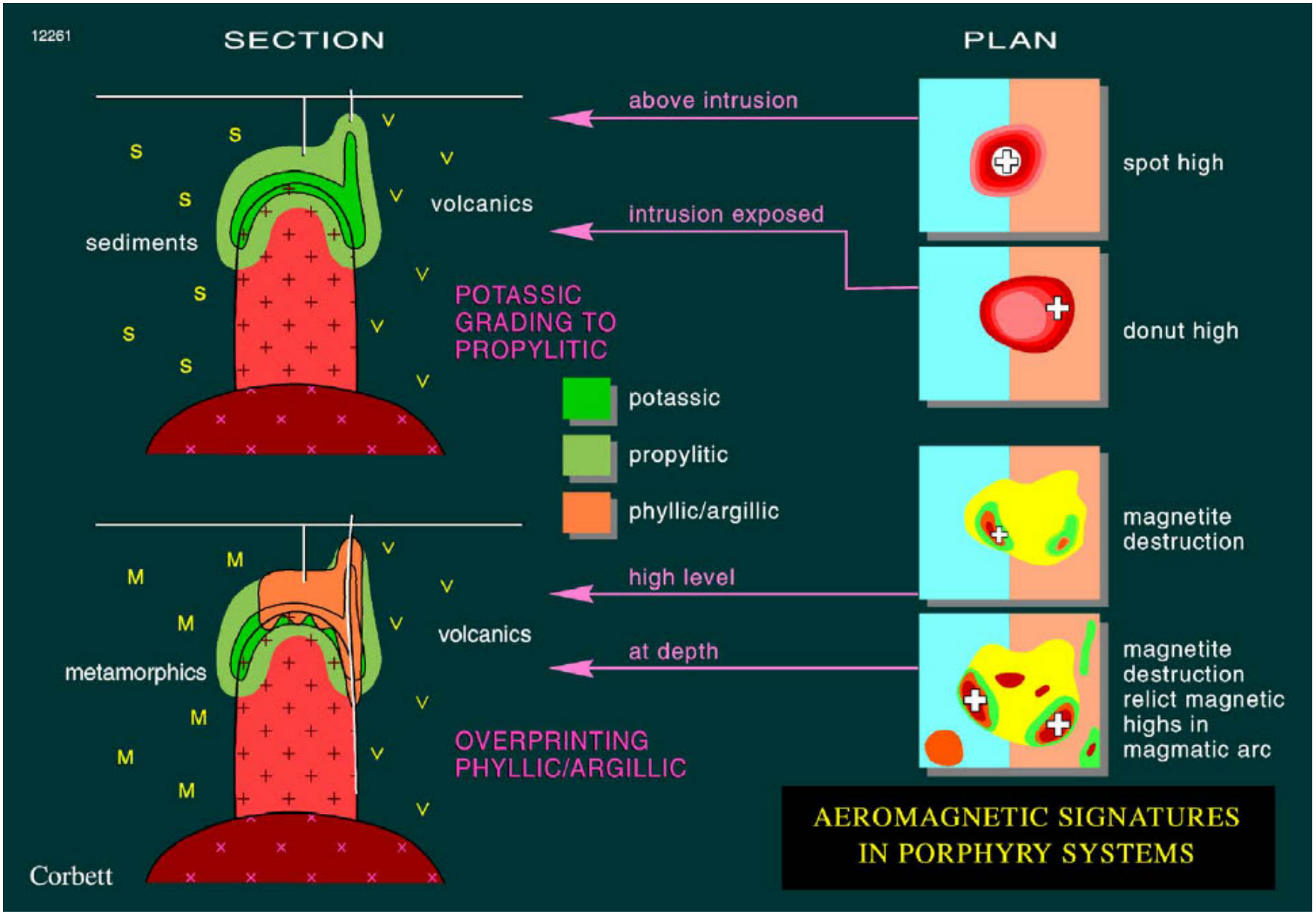




Sillitoe conceptual models of porphyry and related mineralised systems.

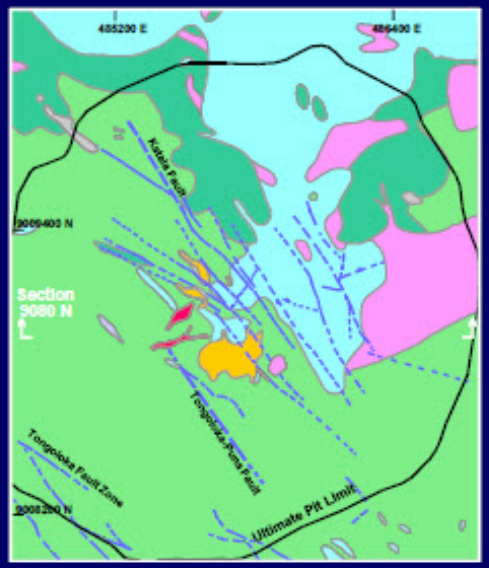
RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

UNSW AUSTRALIA



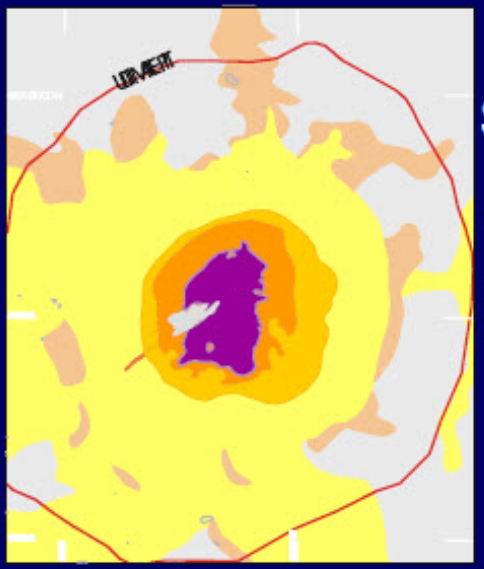
Geophysical & alteration expression of mineralisation

Batu Hijau - Indonesia



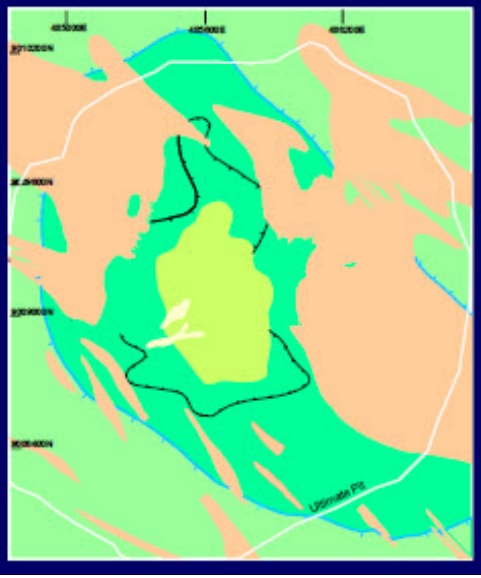
Geology

- Young Tonalite
- Intermediate Tonalite
- Equigranular Quartz Diorite
- Porphyritic Quartz Diorite
- Porphyritic Andesite Intrusive
- Volcanic Lithic Breccia
- Fine Grained Volcaniclastics



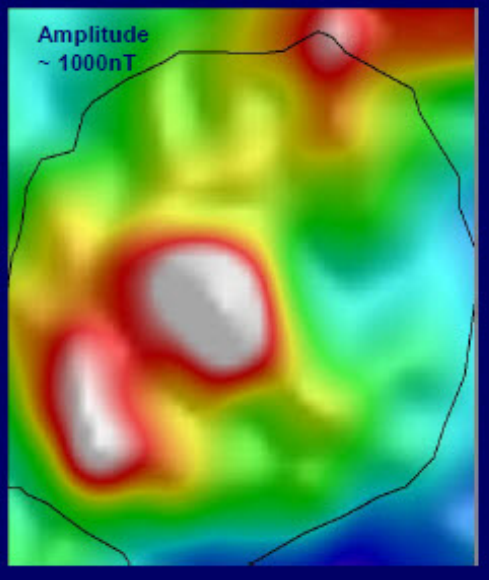
Sulphides

- Bornite + Chalcopyrite
- Chalcopyrite Dominant
- Chalcopyrite > Pyrite Zone
- Pyrite > Chalcopyrite



Alteration

- Moderate to Strong Secondary Biotite
- Sericite – Chlorite +/- Clay
- Feldspar Destroyed (Clay - Mica)
- Epidote Present

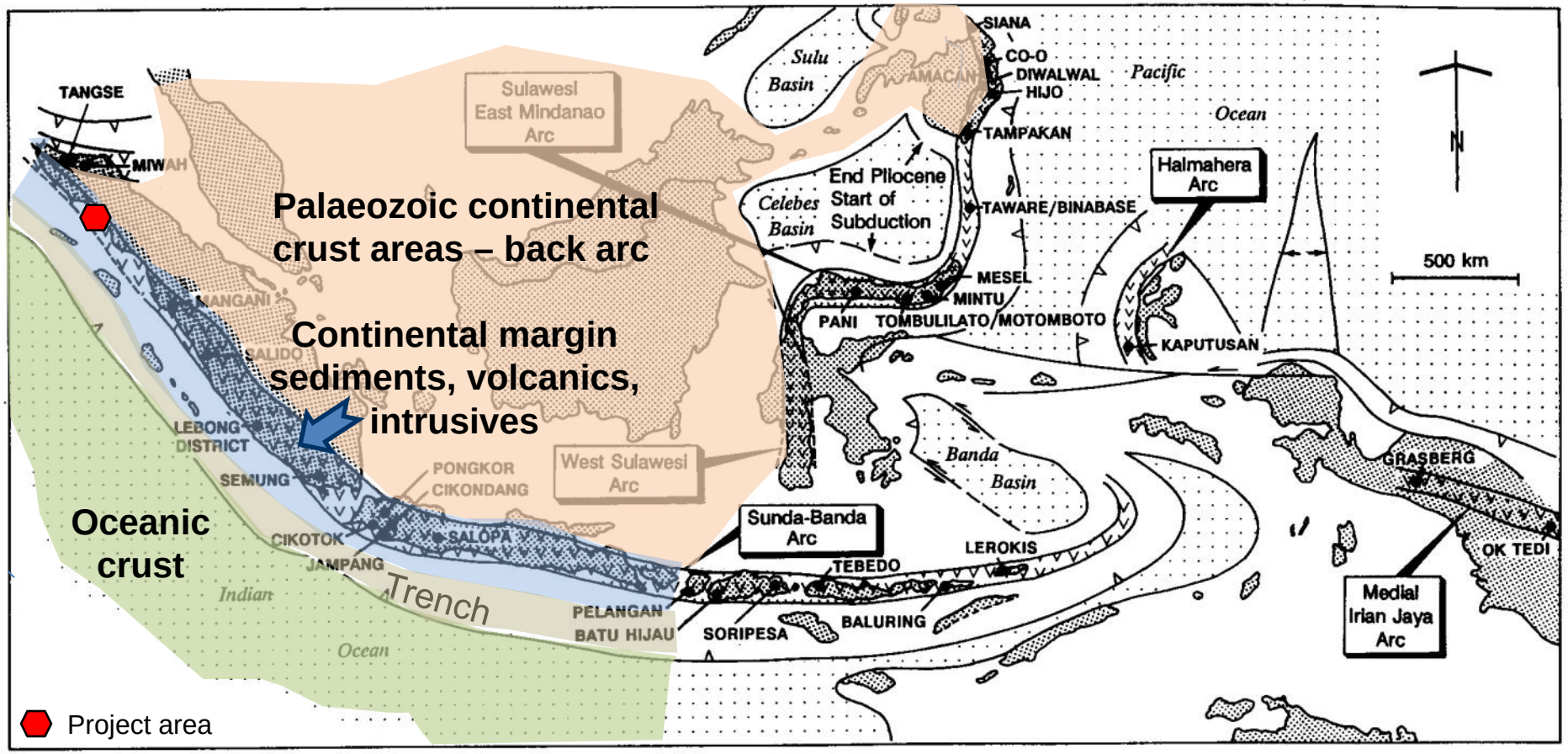


Magnetics

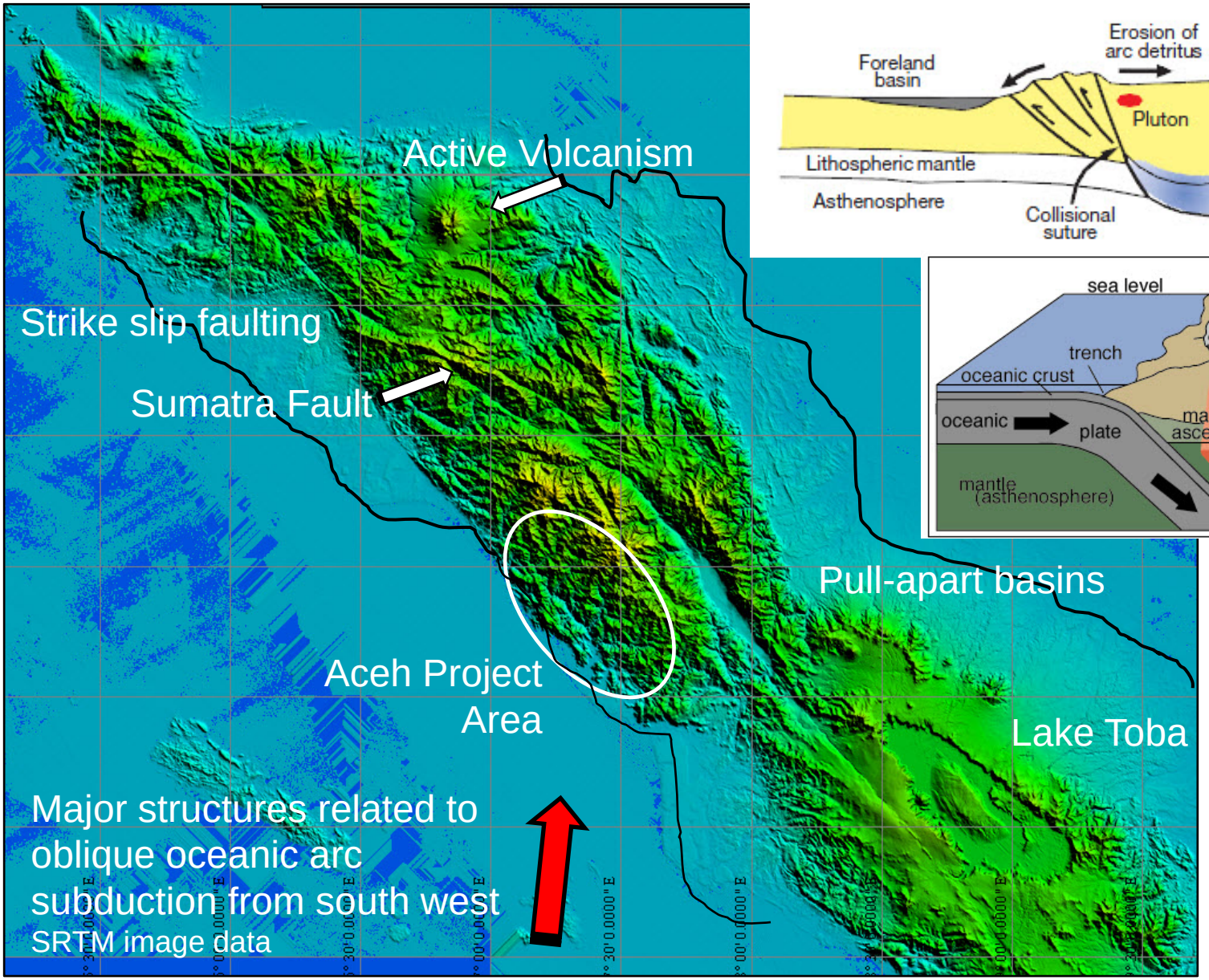
RTP

Bata Hijau the classic model for Indonesian porphyries.

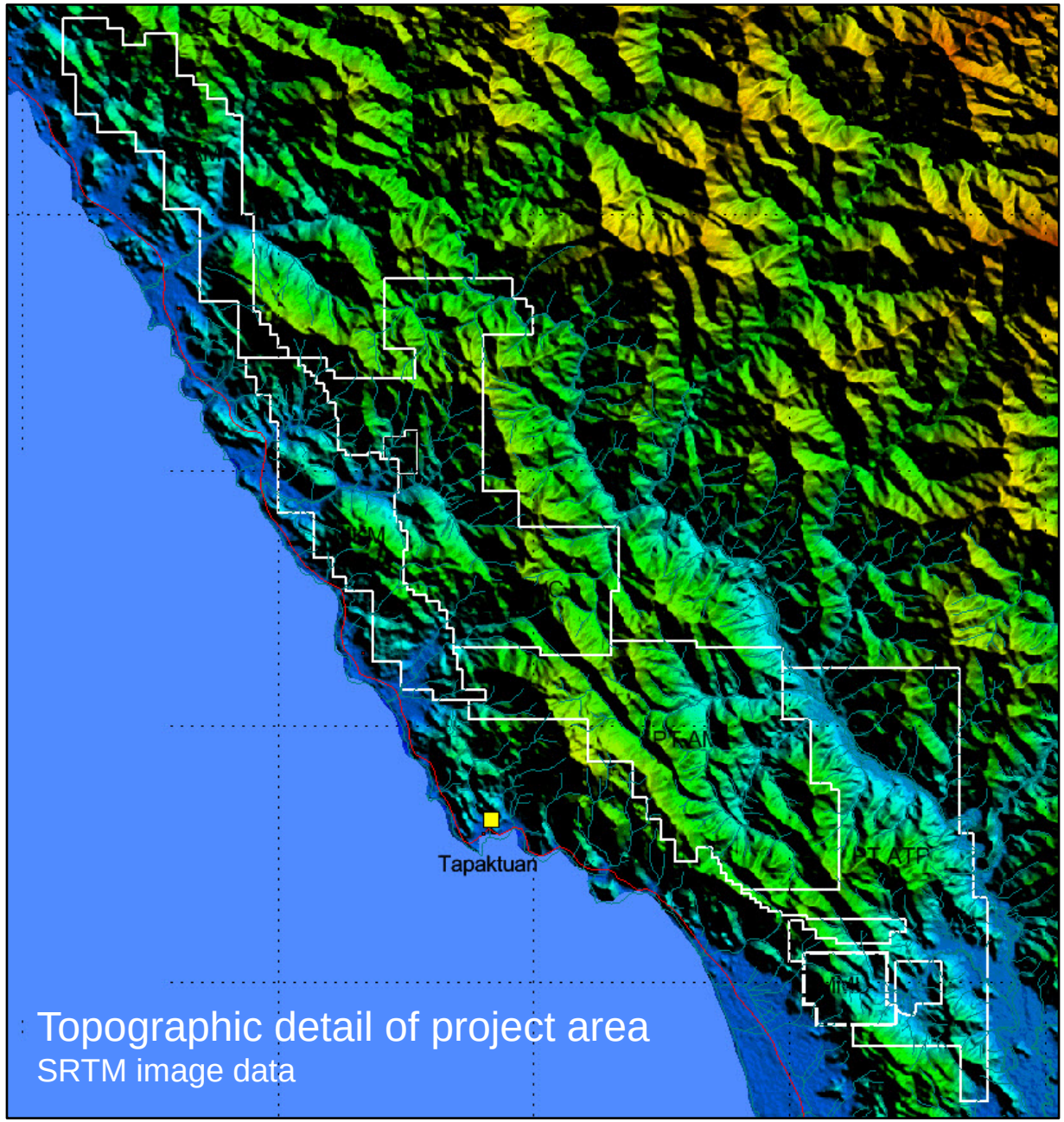
Regional setting of project areas and mineral deposits



Pliocene palaeogeography and magmatic arcs of the Indonesian region showing major mineralised centres. Sumatra Fault defines a major break between the old Palaeozoic continental crustal areas and the continental margin in a classic island arc trench setting.



The terrain in Aceh is an exercise in fractals – just as bad at all scales and even harder when you have to work in it.



Topographic detail of project area

SRTM image data

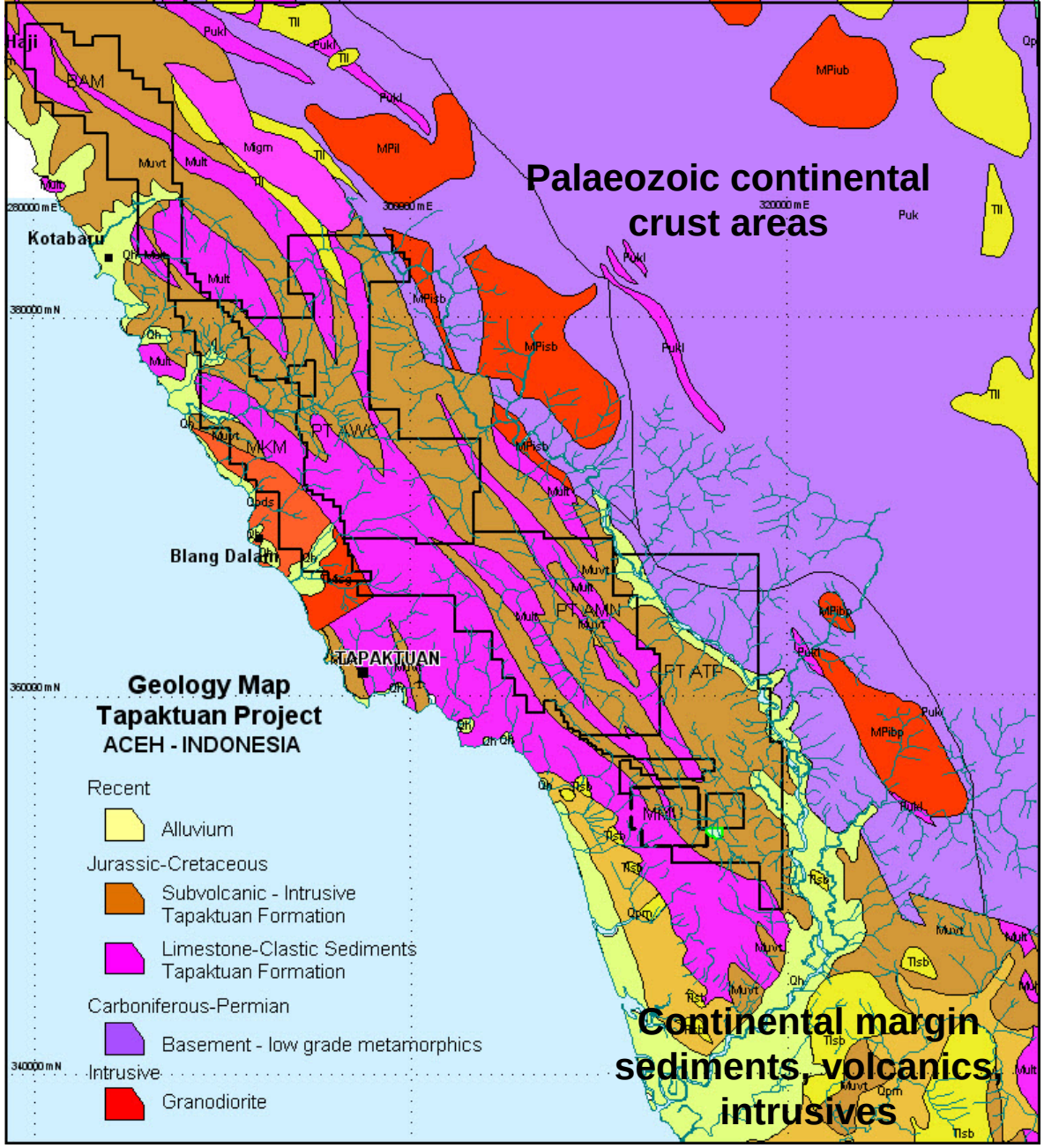
The topography really is as bad as you think.

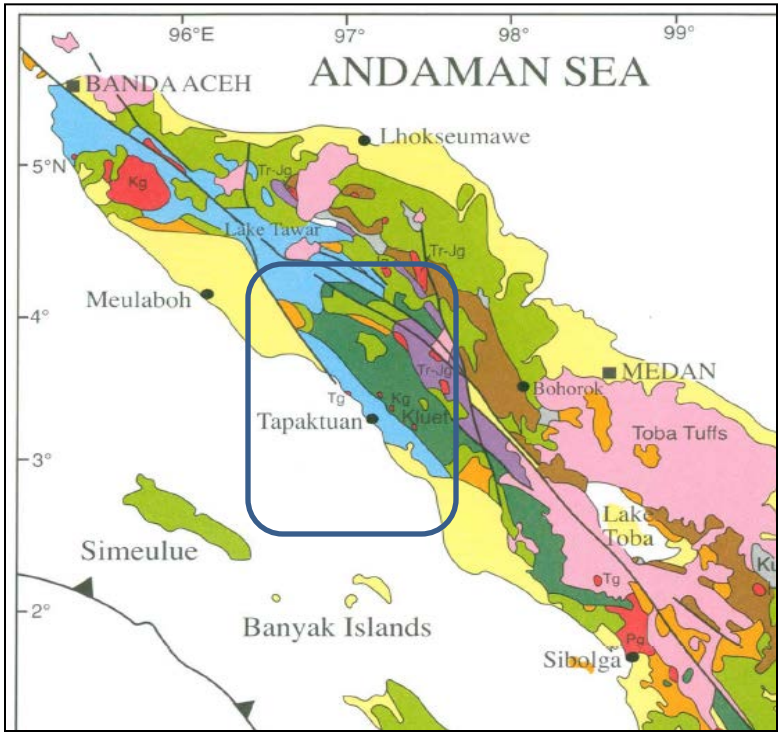
Home of the Sumatran tiger, Asian elephants and pygmy rhinoceros.

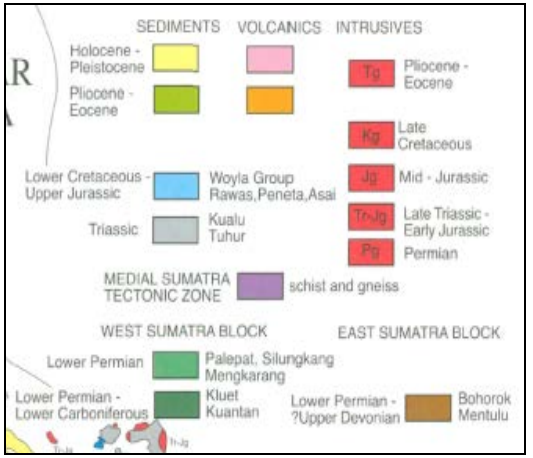
Continental margin facies rocks

RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

UNSW
AUSTRALIA



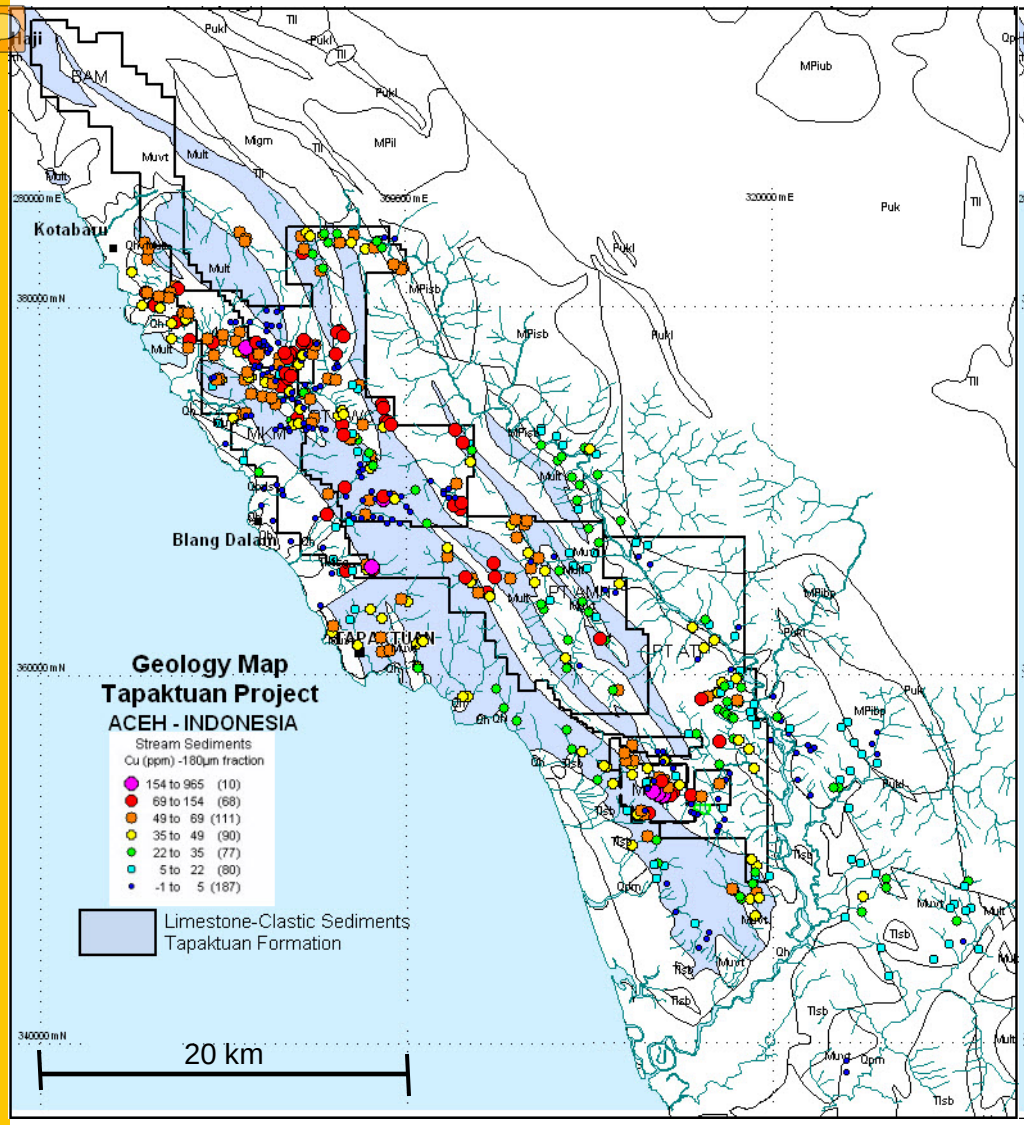


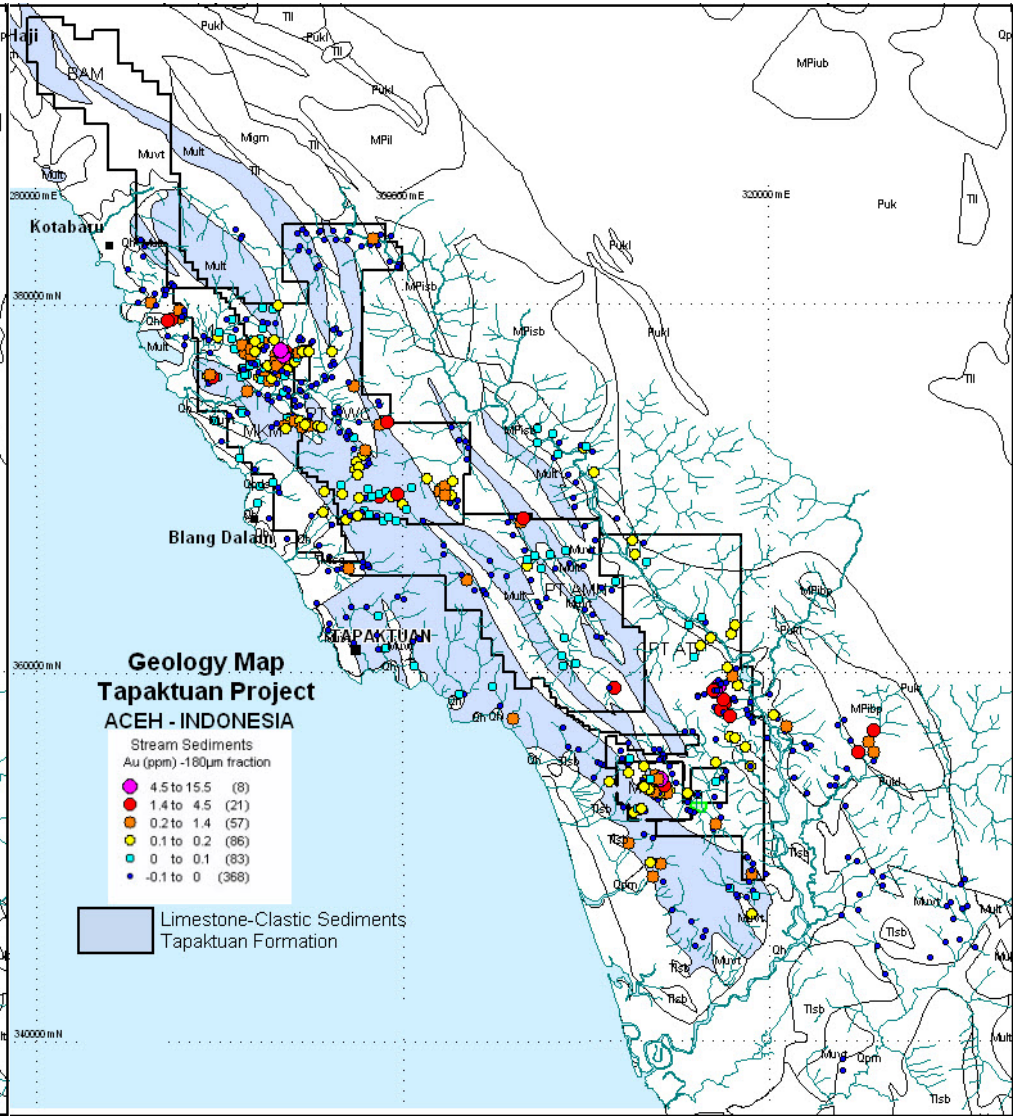


RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

Published 1:250,000 scale geology map of southern Aceh

UNSW AUSTRALIA



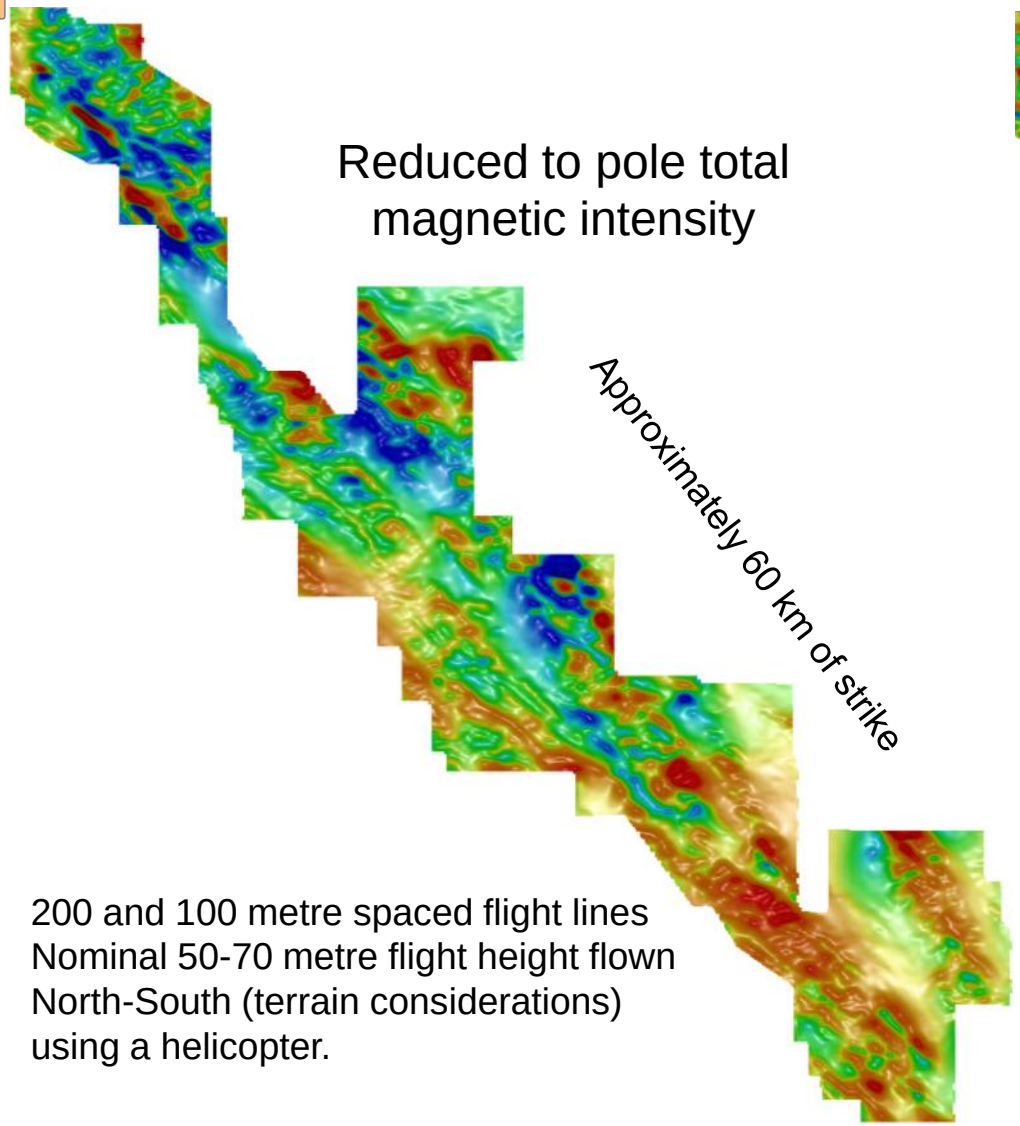


Regional stream sediment survey undertaken by Rio Tinto in early 1990s before the Aceh conflict commenced highlighted a number of regions of potential interest. Later sampling by a Meekatharra Minerals-Teck JV located gossanous outcrop at the two most prominent sites.

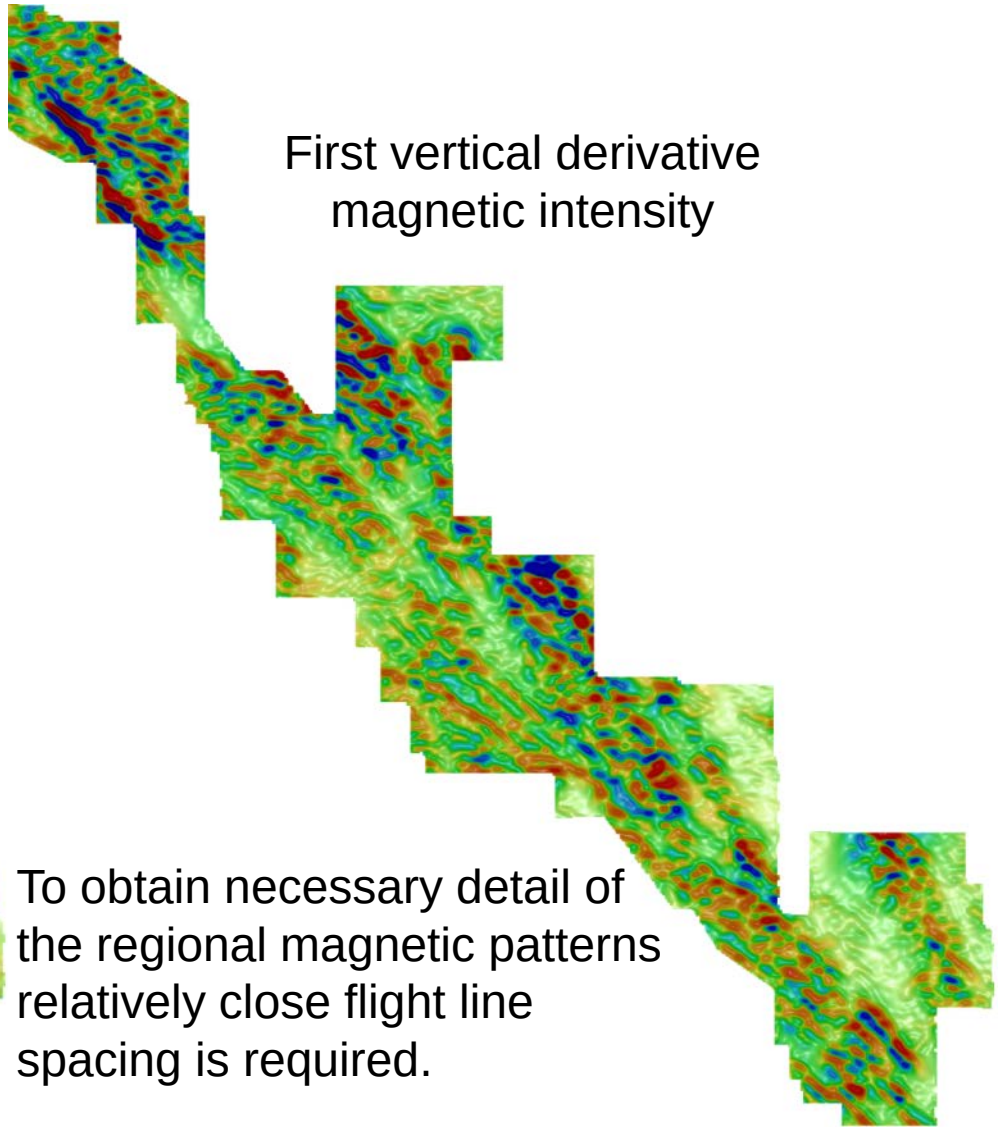
RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

UNSW AUSTRALIA

Reduced to pole total magnetic intensity



First vertical derivative magnetic intensity



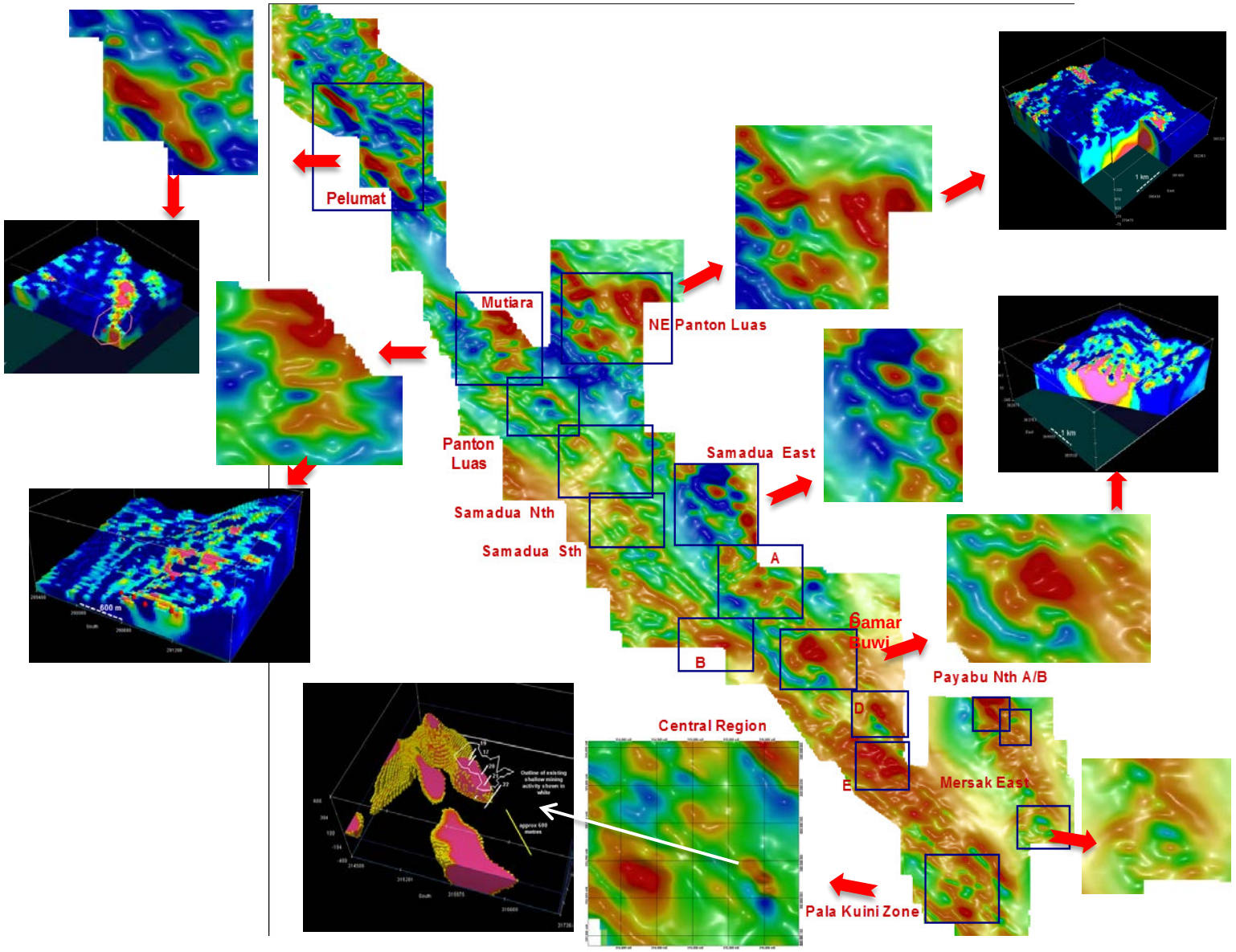
200 and 100 metre spaced flight lines
Nominal 50-70 metre flight height flown North-South (terrain considerations) using a helicopter.

To obtain necessary detail of the regional magnetic patterns relatively close flight line spacing is required.

Due to access & logistical constraints geological mapping and detailed heliborne magnetics were used early in the program to outline regional setting, aid interpretation and for definition of target sites.

RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

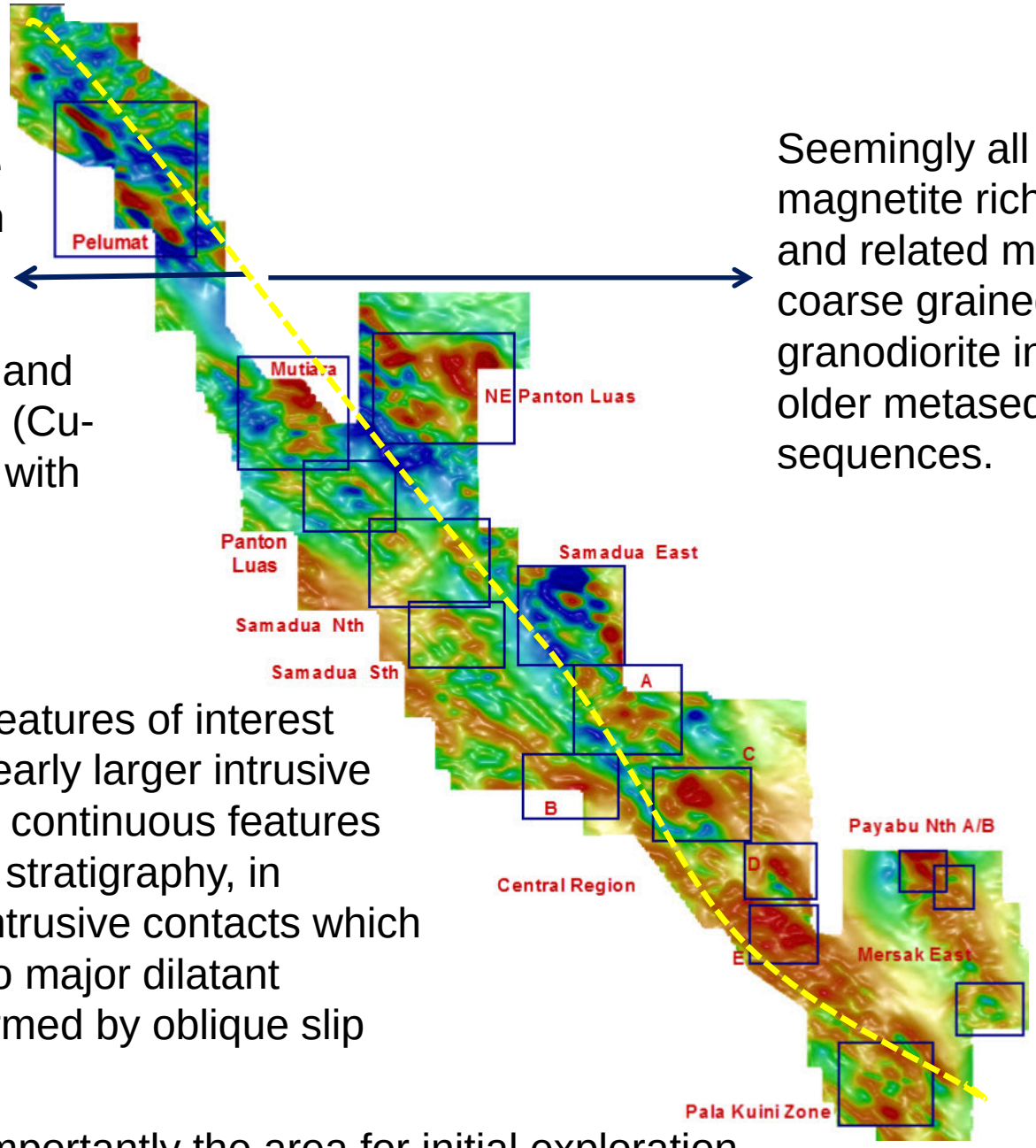
UNSW
AUSTRALIA



Airborne magnetic data detail and 3D inversion modelling merged with field mapping enabled anomaly discrimination.

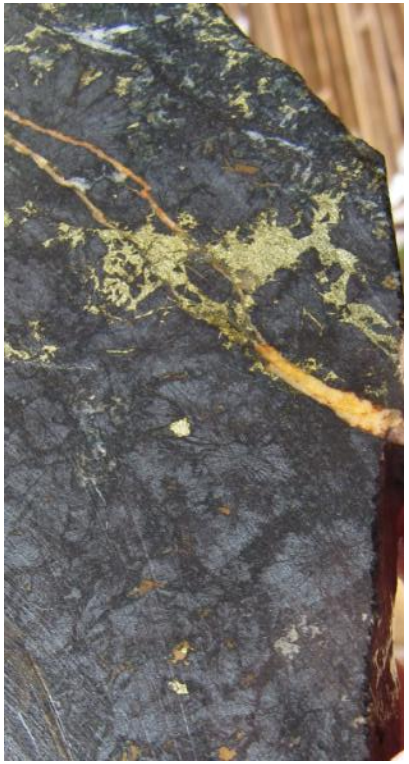
Mineralised magnetite bearing endoskarns in elongate microdiorite intrusives and garnet-wollastonite prograde and retrograde exoskarns (Cu-Au-Mo) about contact with limestone

Seemingly all barren magnetite rich endoskarns and related magnetite rich coarse grained diorite to granodiorite intrusives into older metasedimentary sequences.

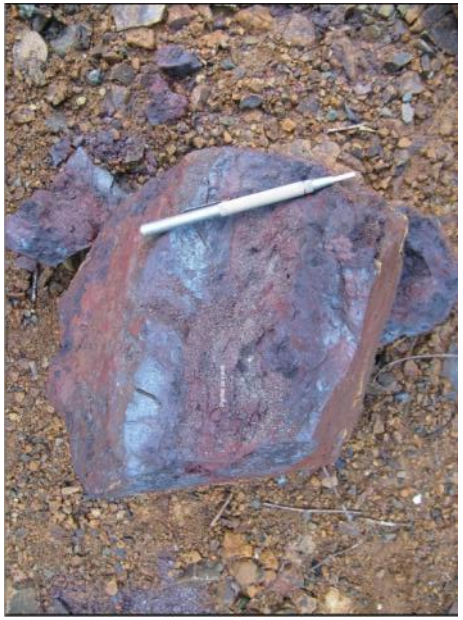


Numerous magnetic features of interest highlighted – some clearly larger intrusive bodies, others narrow continuous features mirroring the mapped stratigraphy, in particular limestone-intrusive contacts which however are related to major dilatant regional structures formed by oblique slip arc deformation.

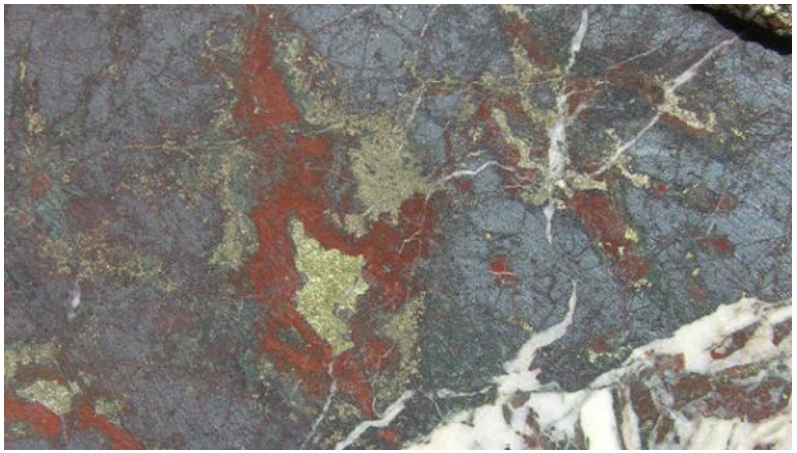
Importantly the area for initial exploration could be significantly reduced.



(17 metre interval from 212 metres @ 1.27g/t Au and 0.7% Cu)



Example of outcropping magnetite endoskarn hosted within epidote-bearing retrograde altered microdiorite



(1 m interval 1.47 g/t Au; 0.49% Cu)

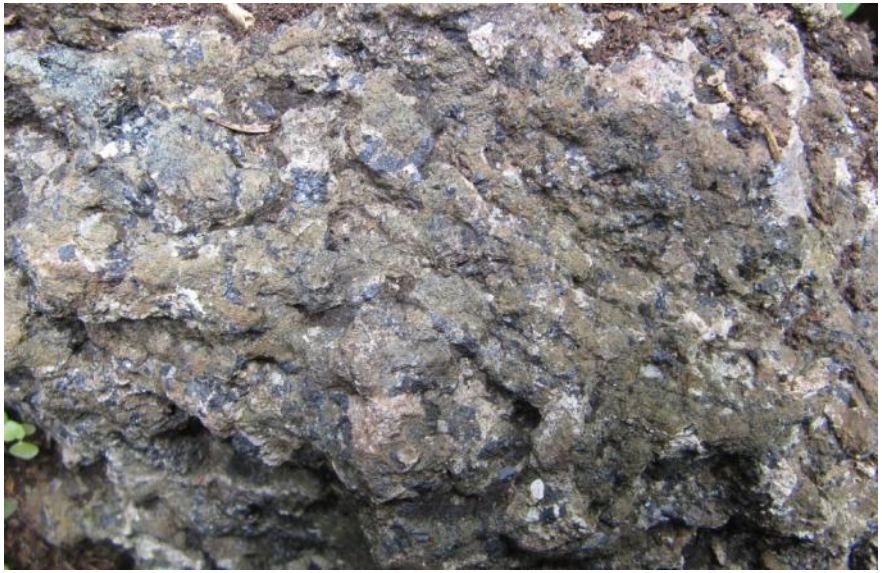
Early drilling was focused on the strongly magnetic microdiorite hosted targets with results giving sufficient encouragement to expand activities to other regional targets.

RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

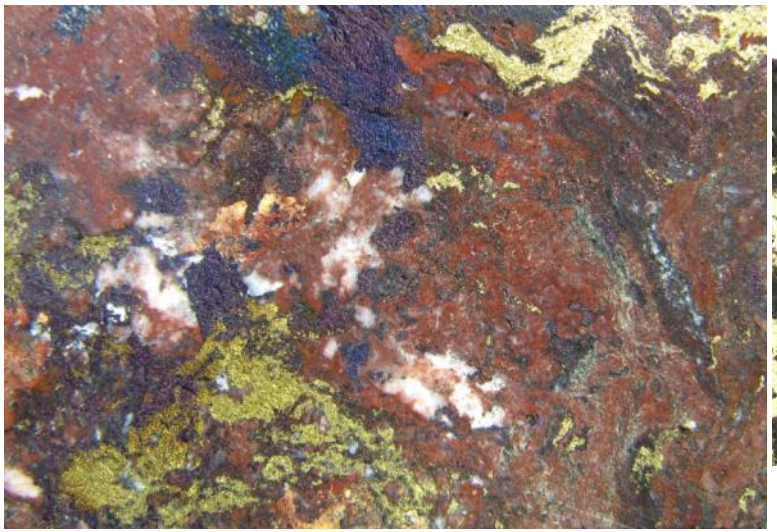
UNSW AUSTRALIA

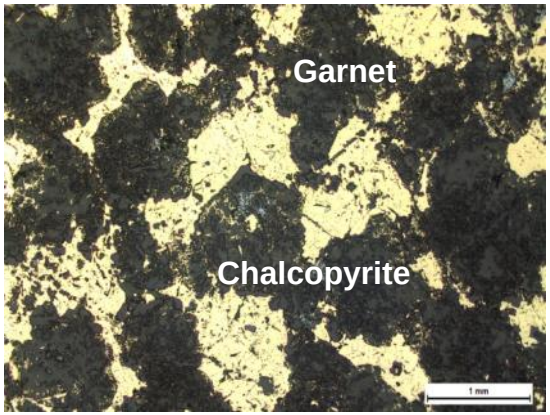
§ Mapping demonstrated that pronounced magnetic lows marginal to intense linear magnetic features were often sites for prograde garnet-pyroxene±wollastonite skarns which subsequently became altered by mineralised hydrothermal fluid derived from the intrusive. These intrusives are anomalous in Au and Cu and contain abundant magnetite.

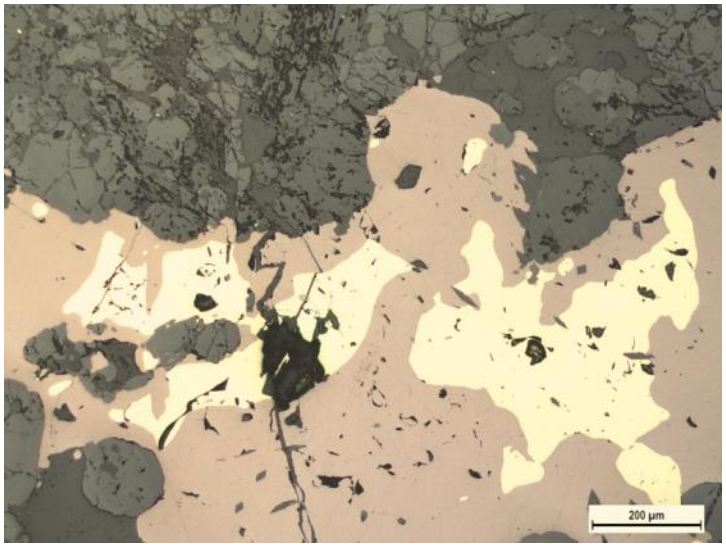
§ High grade retrograde Au-Cu skarns occur as irregular pipe-like bodies adjacent to the intrusive margin or associated with often large limestones blocks incorporated within the intrusion. These are readily located using routine soil and rock geochemistry across the target zone.

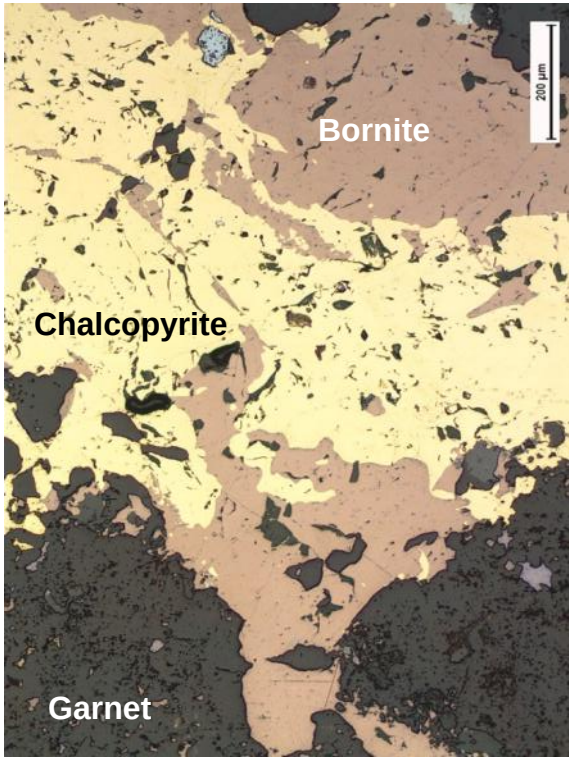


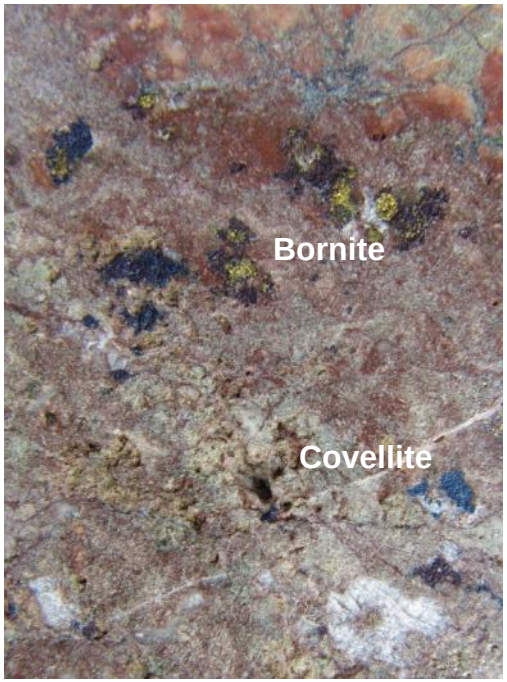
Prograde garnet magnetite skarn









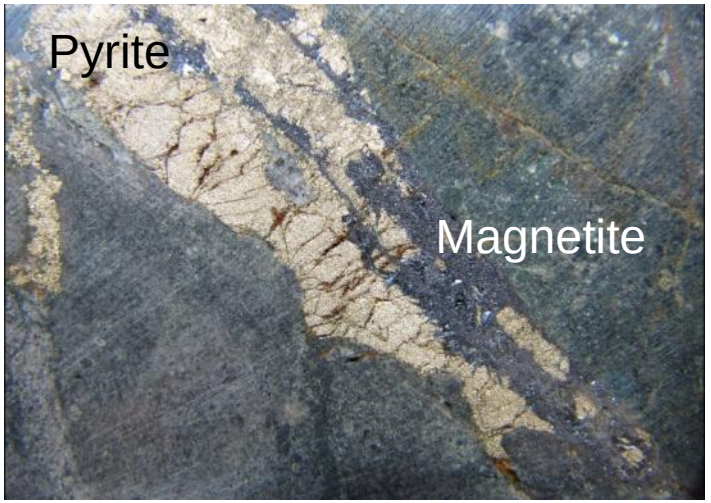


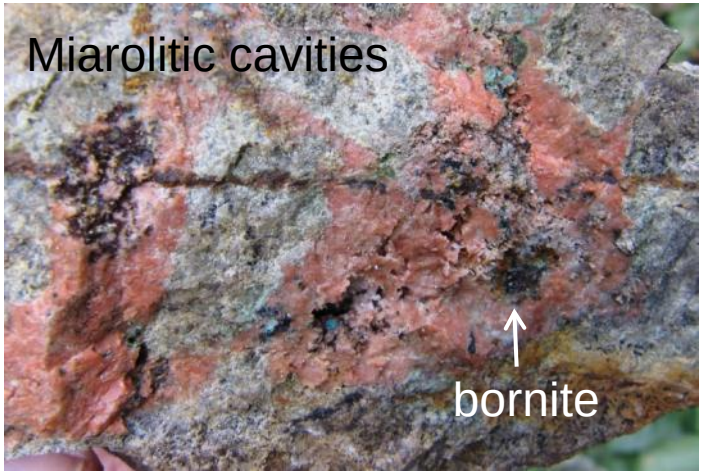
Mineralisation is dominated by bornite-chalcopyrite assemblages in retrograde skarns; magnetite-chalcopyrite in prograde endoskarns within the microdiorite intrusives.

RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

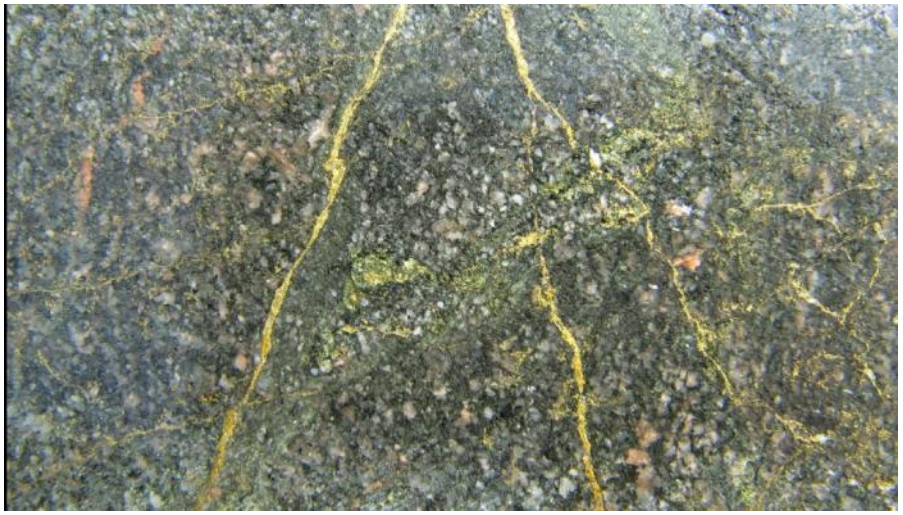
Examples of high grade skarn mineralisation

UNSW AUSTRALIA

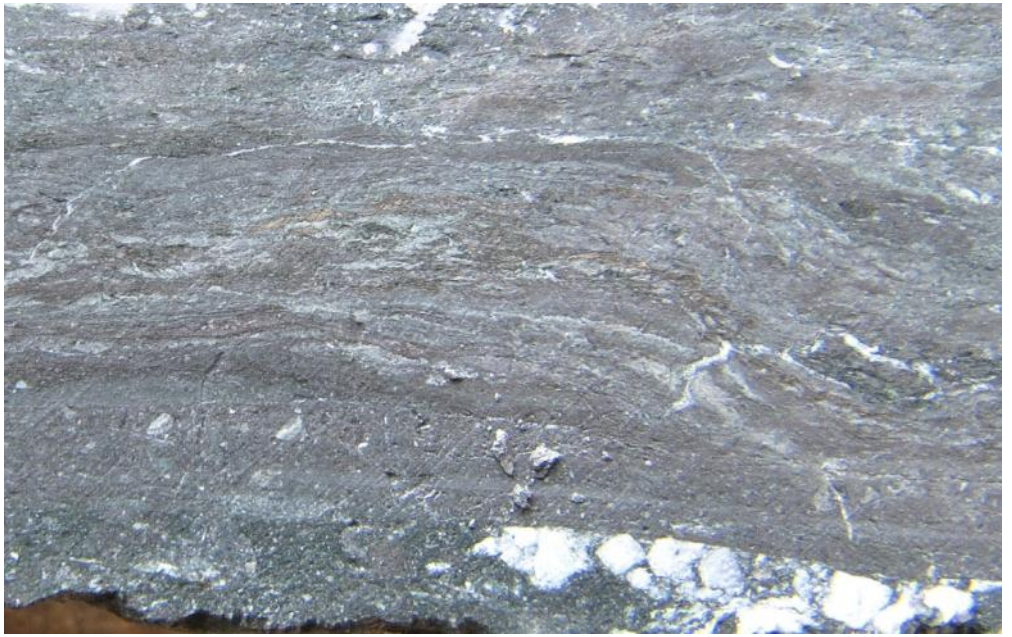




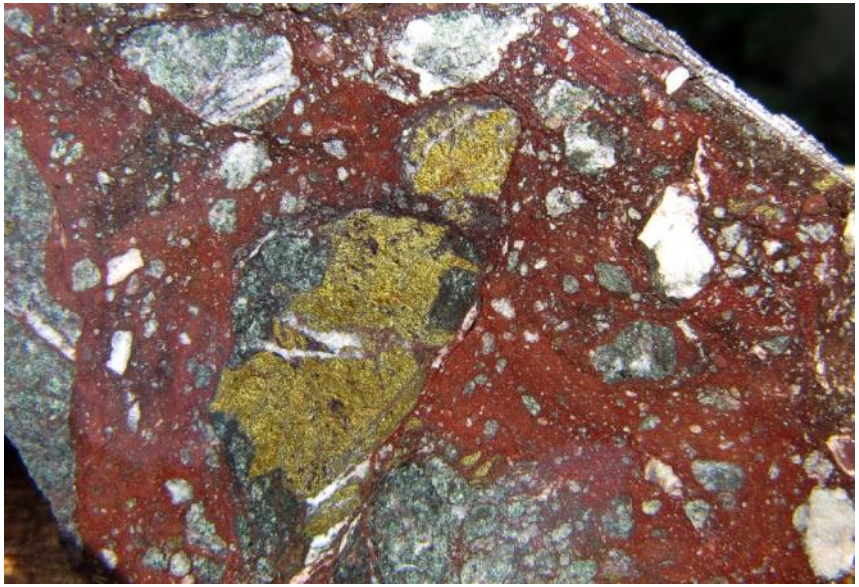
Hydrothermal features are seen as magnetite veins, alteration of magnetite to pyrite, miarolitic cavities lined with feldspar and bornite crystals, pyrite-chalcopyrite vein fill within microdiorite.



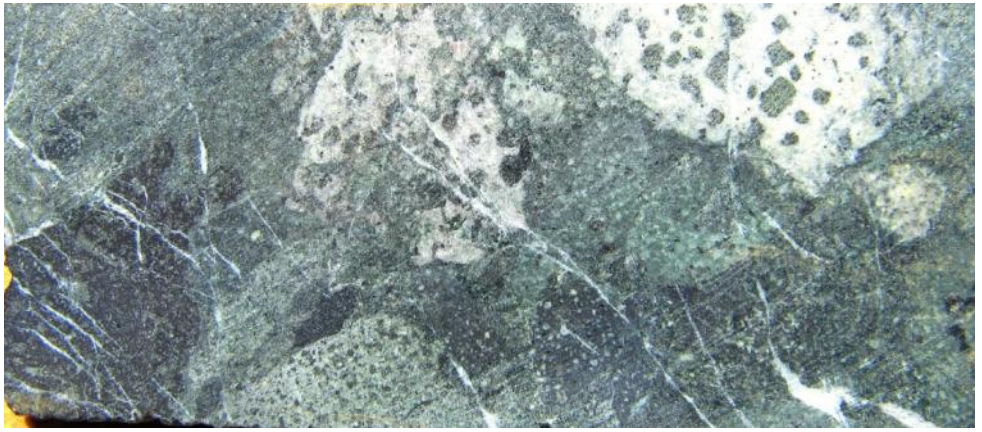
Chalcopyrite as late fracture fill



Mylonitic fabric high compression shear surface



Late hydrothermal breccias with limestone & mineralised microdiorite clasts

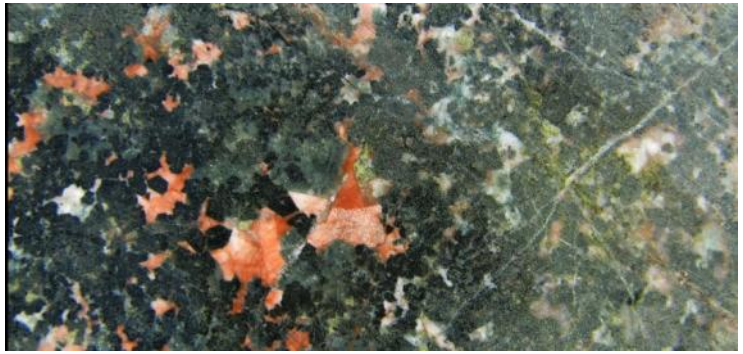


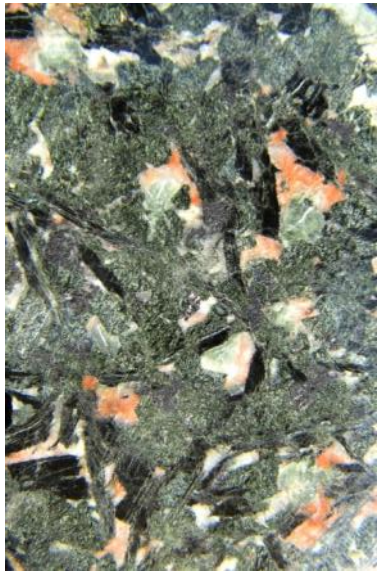
Polymictic intrusive breccia

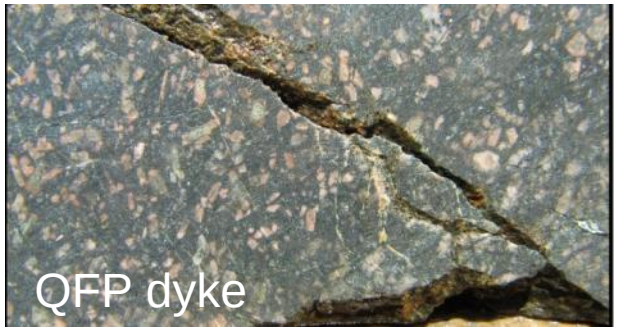
Evidence of tectonic and intrusion related events

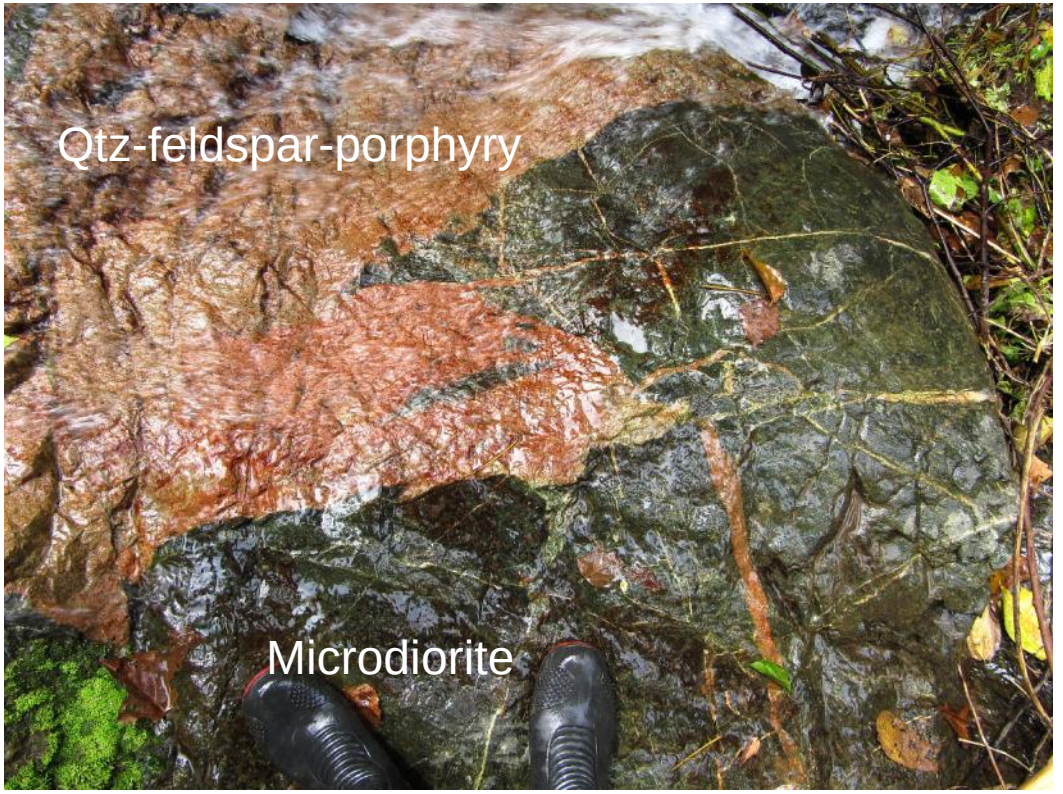
RUTHERFORD MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

UNSW AUSTRALIA

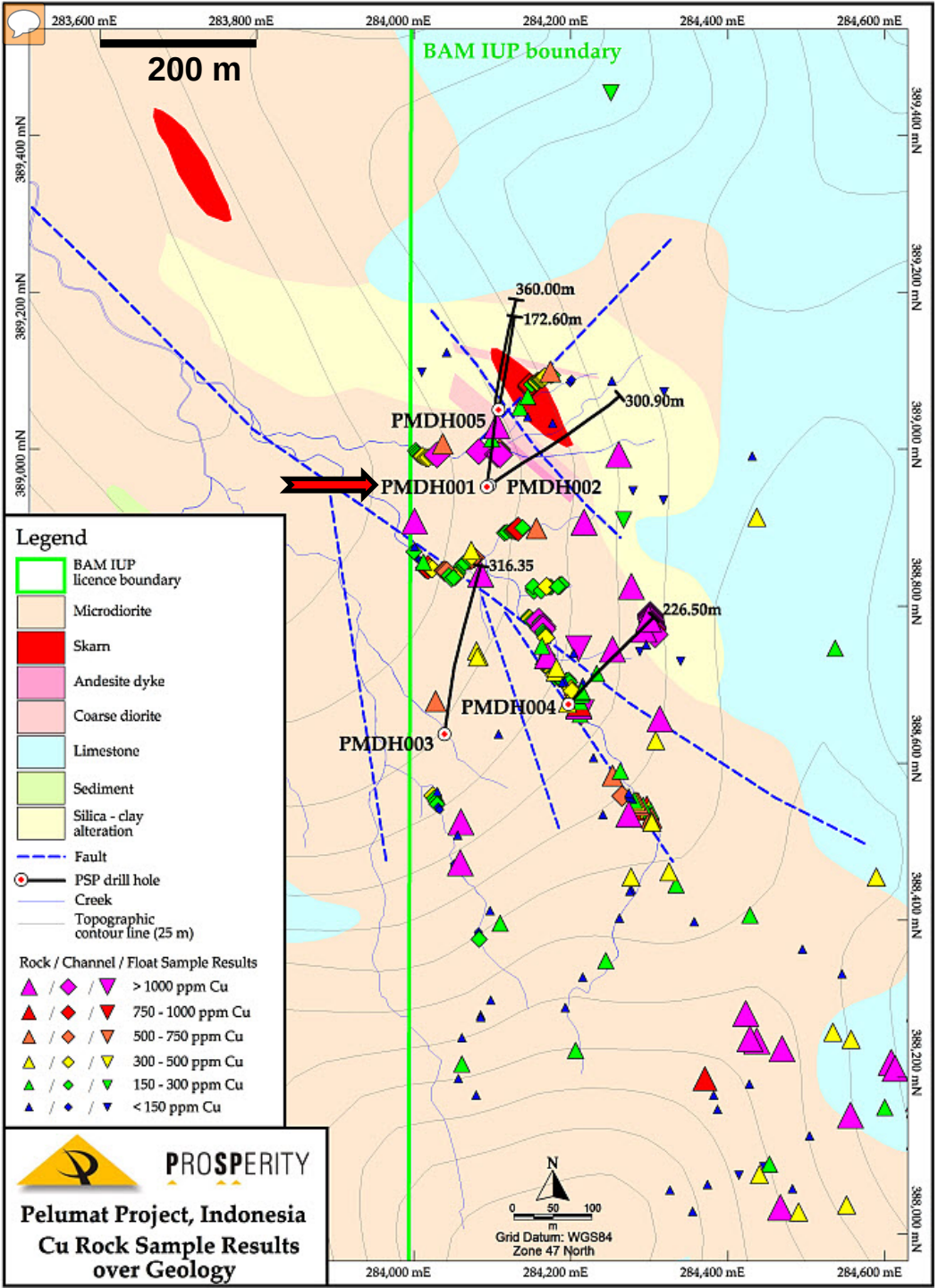


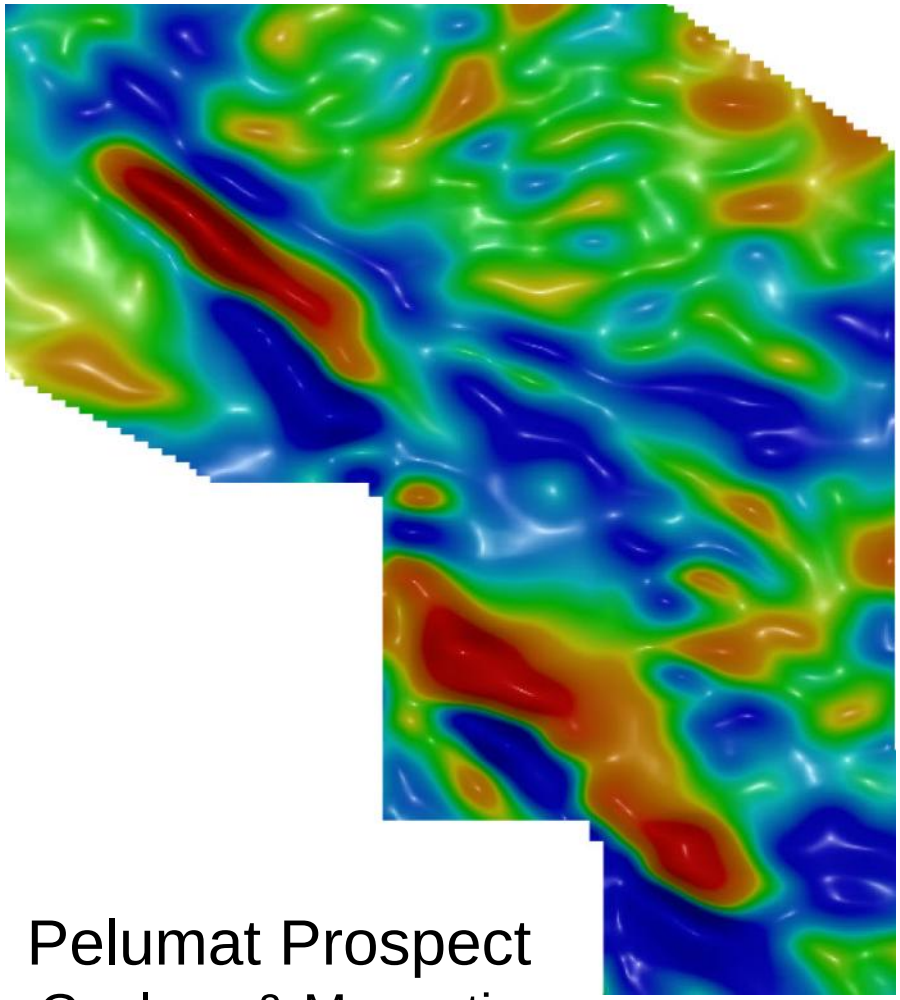






Ongoing intrusive activity occurs as fracture fill reflecting continuing dilation along the same structural pathways

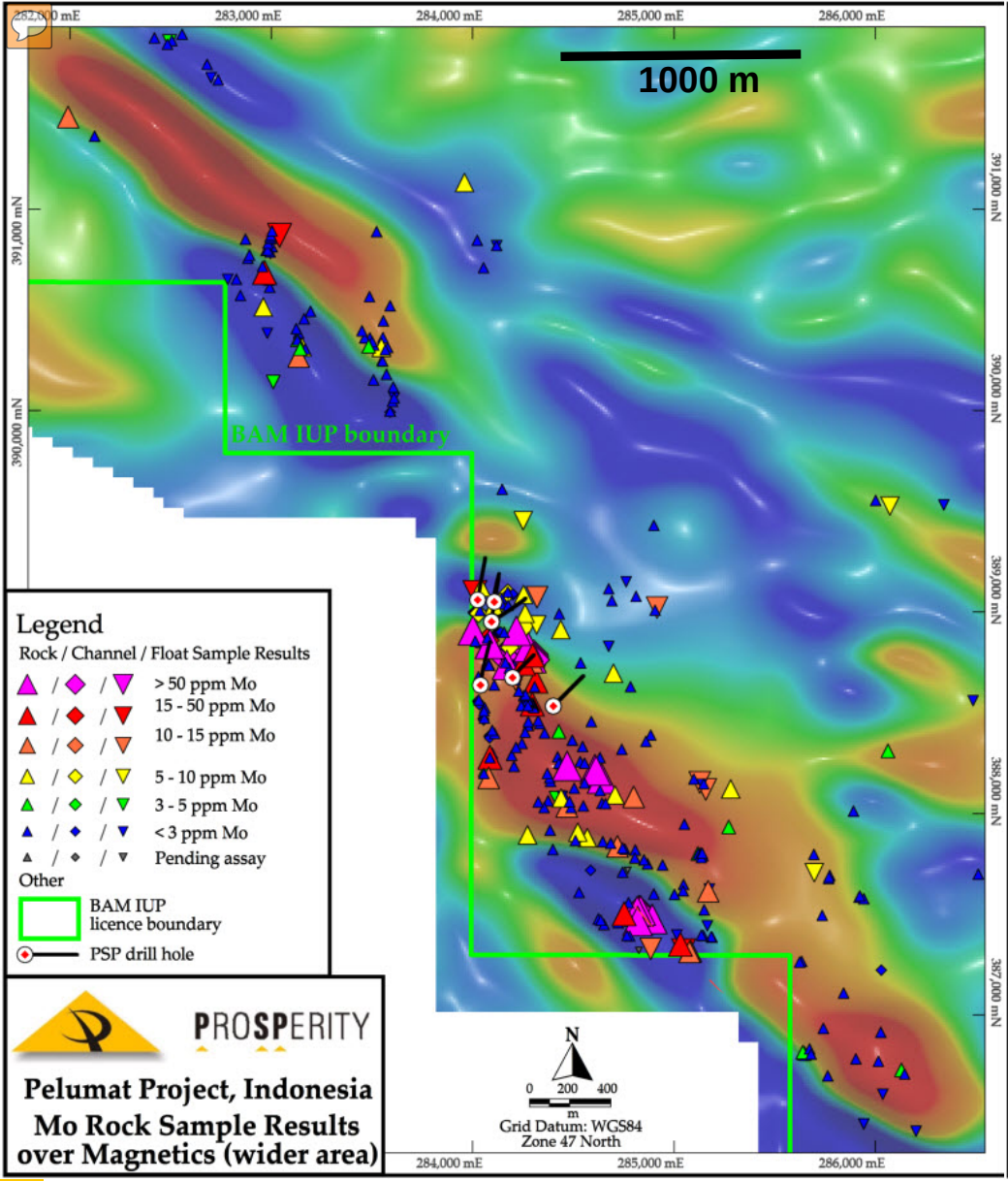


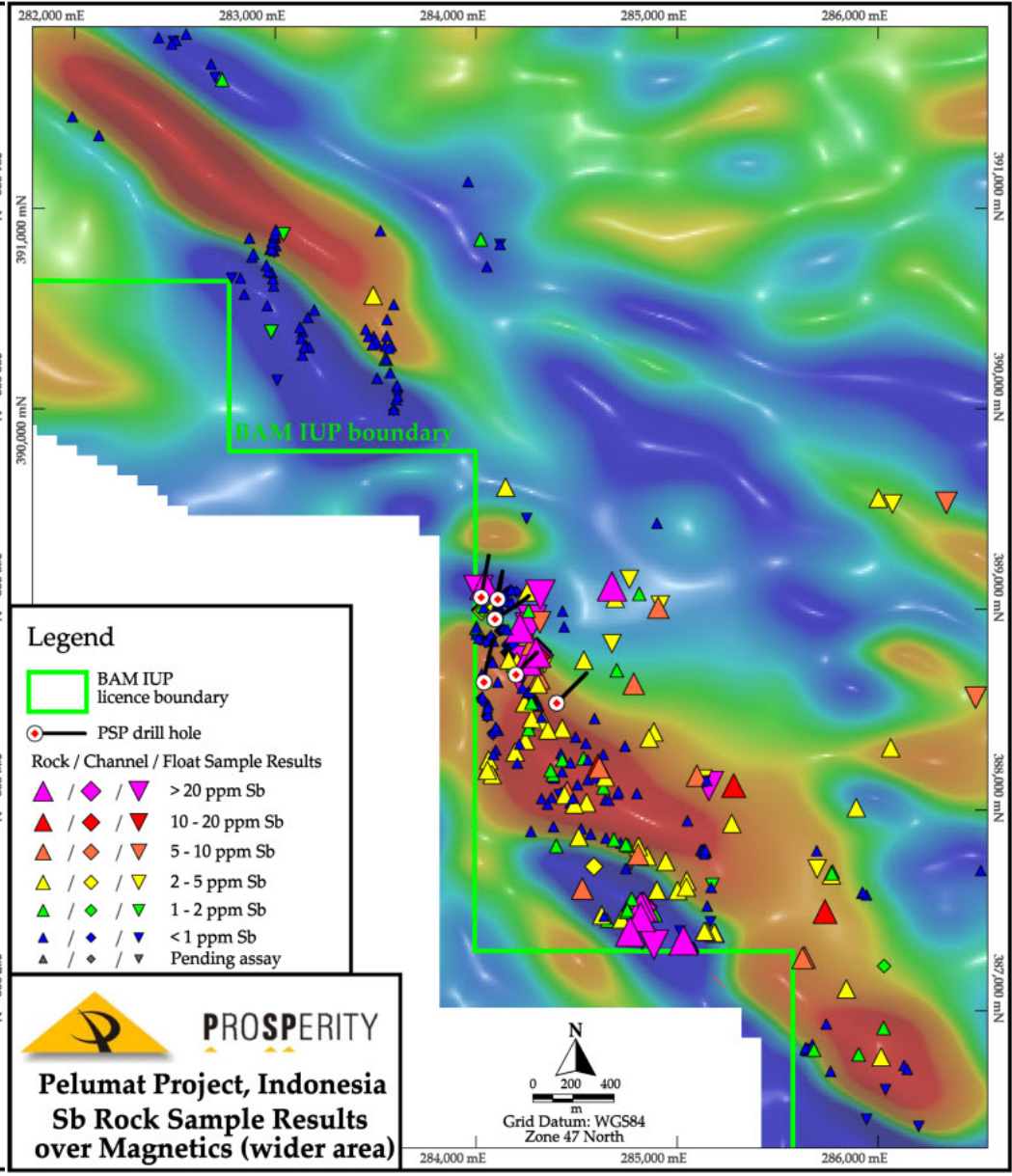


Pelumat Prospect

Geology & Magnetic expression.

UNSW AUSTRALIA

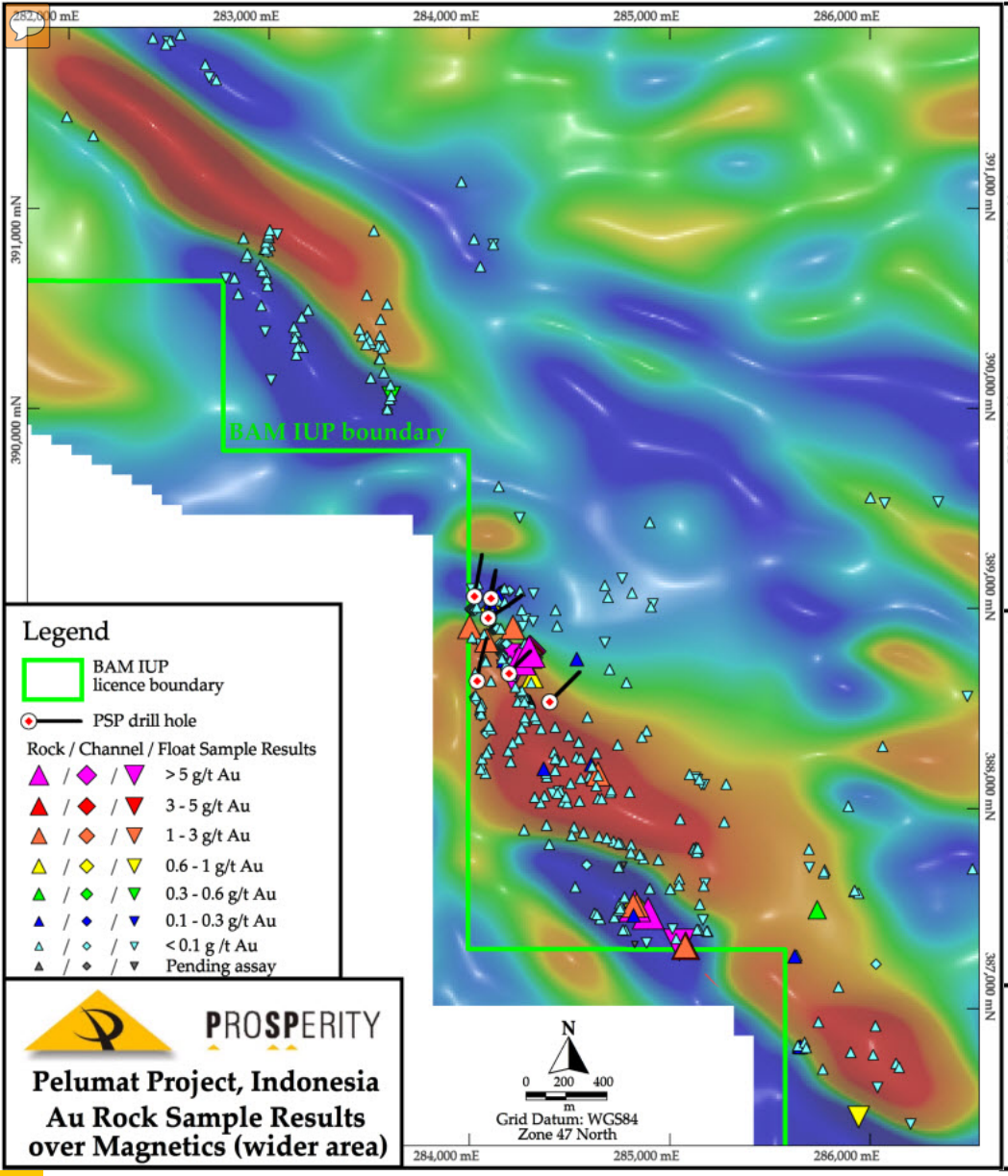


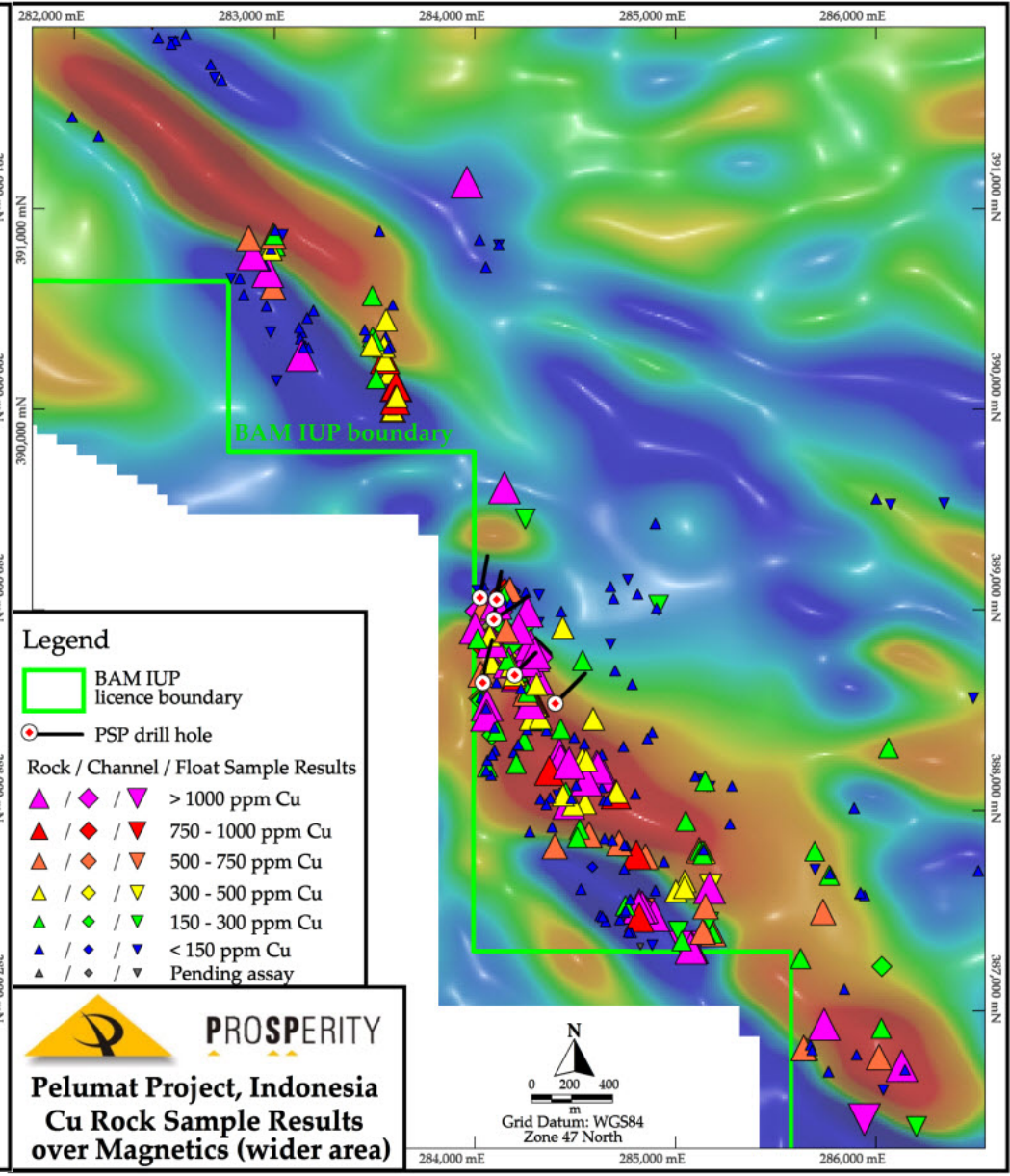


Rock chip Results over RTP TMI Image
Mo-Sb rock chip results

RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

UNSW AUSTRALIA

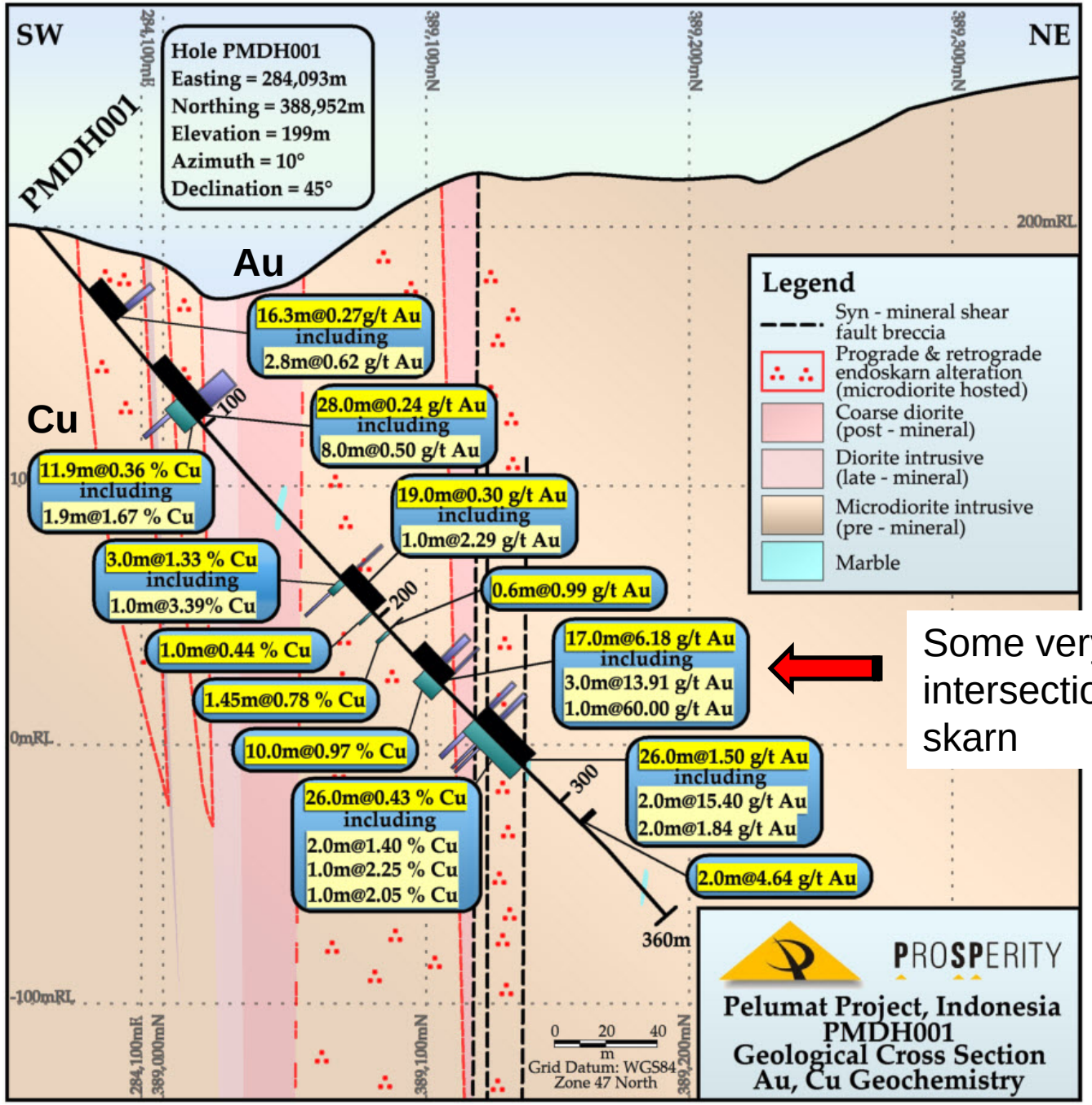




Rock chip Results over RTP TMI Image
Au-Cu rock chip results

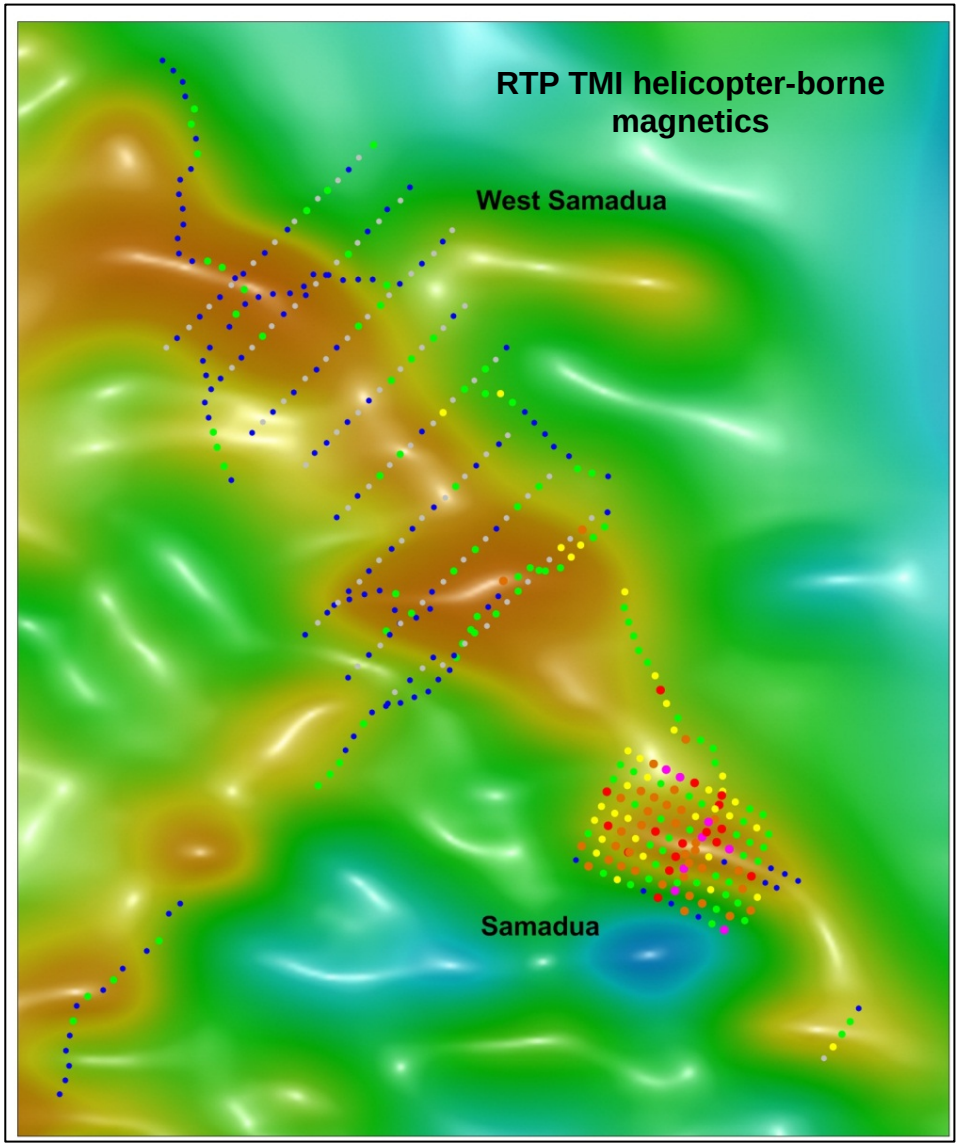
RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

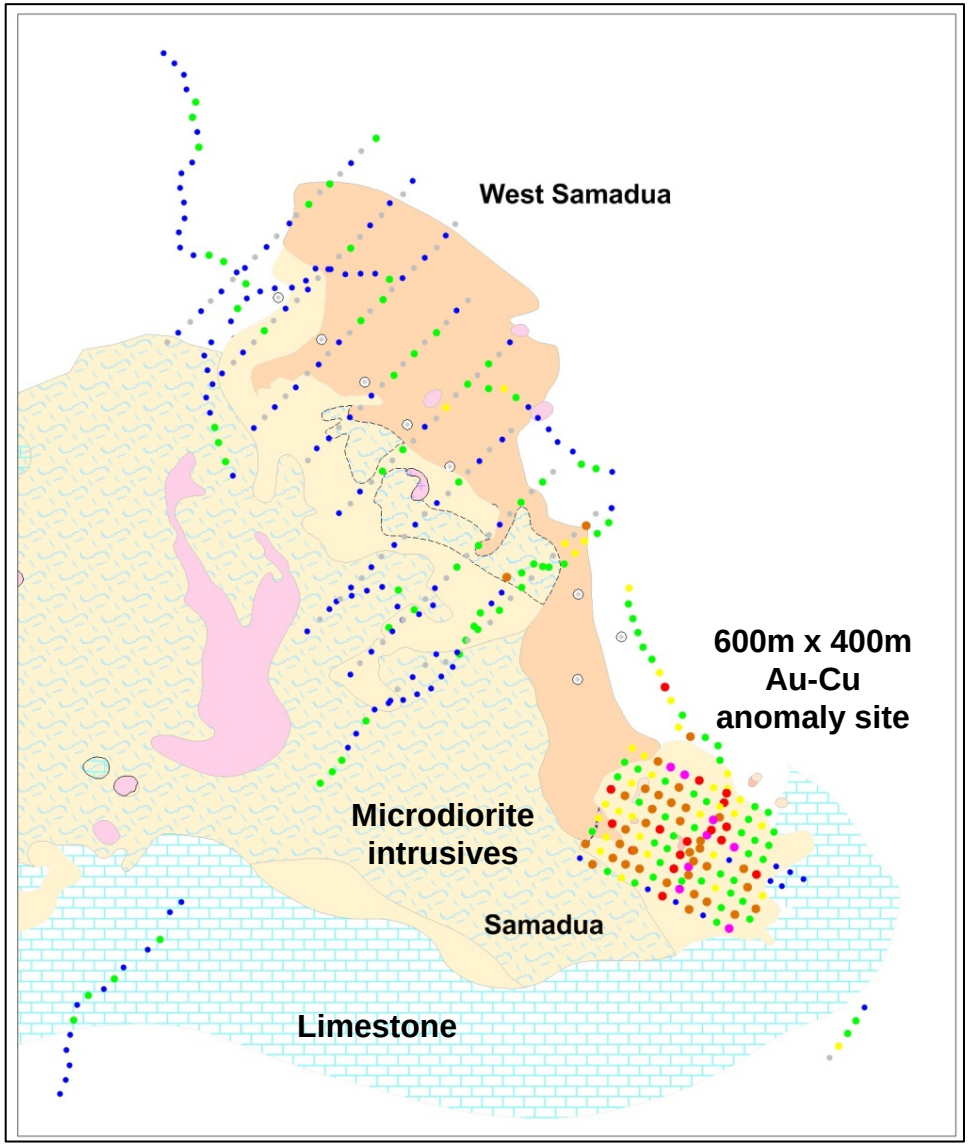
UNSW AUSTRALIA



Some very high grade intersections in retrograde skarn

Samadua Project – Location in the clouds

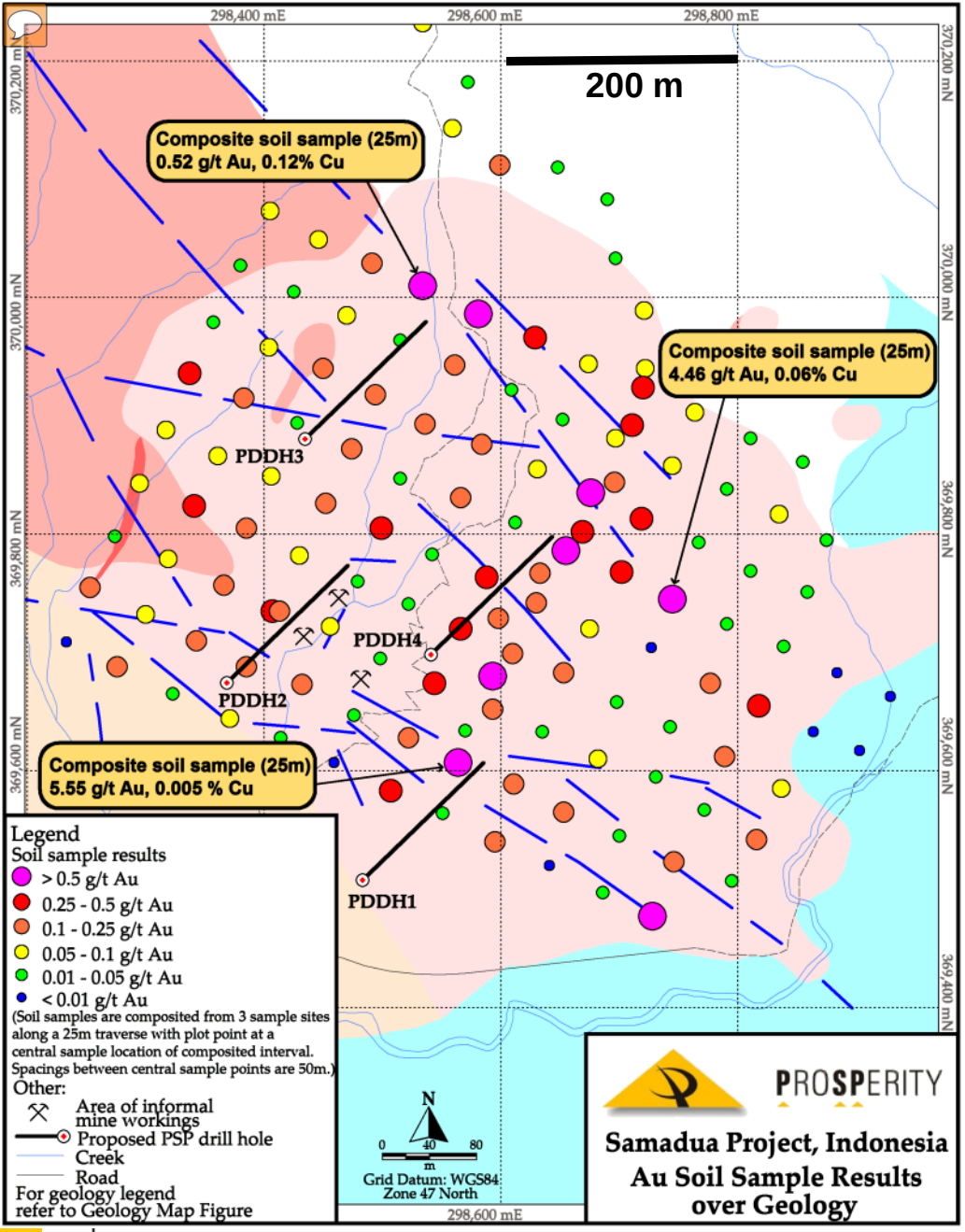


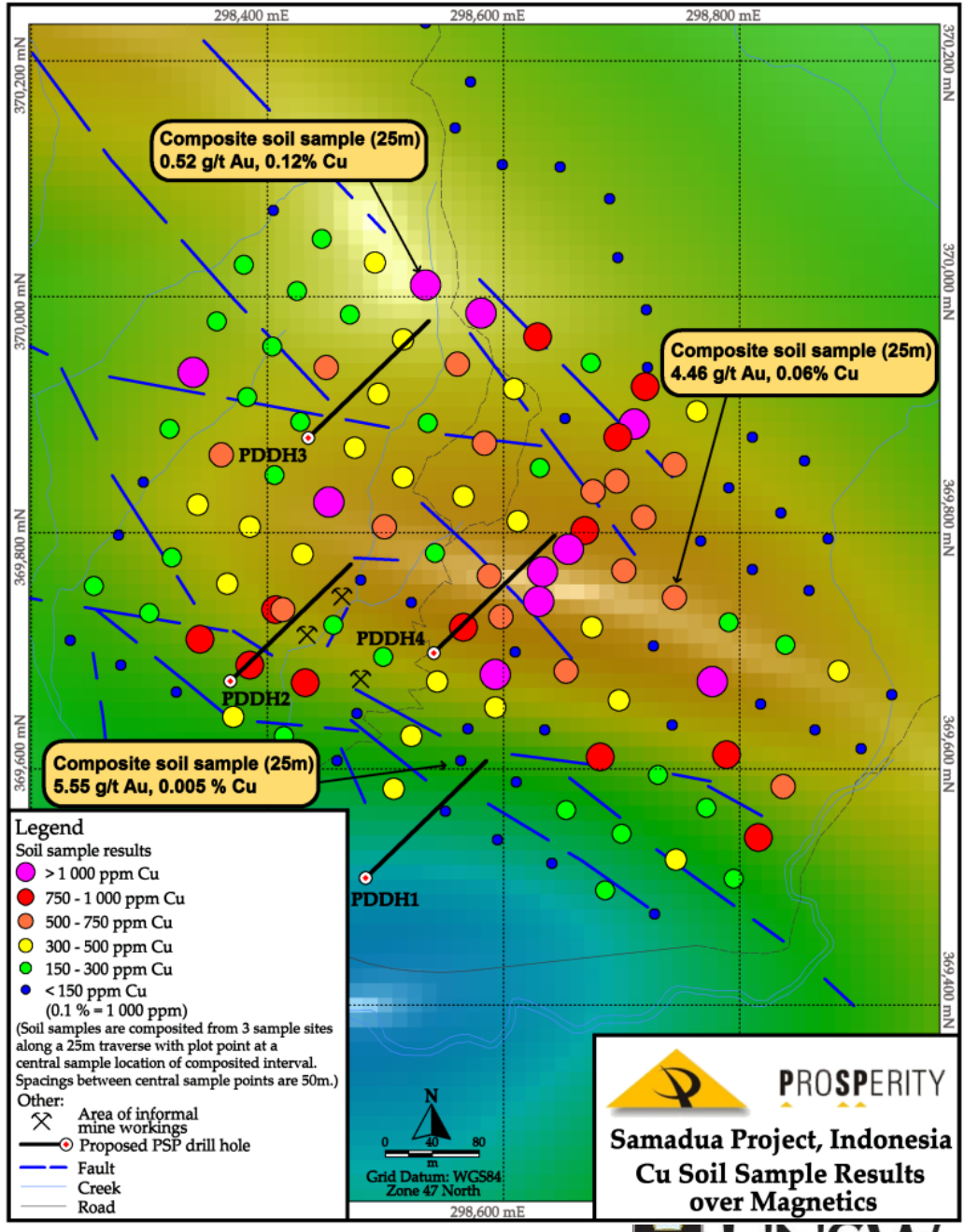


Samadua Project – Magnetics, geology and Cu-Au-Mo geochemistry

RUTHERFORD MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

UNSW AUSTRALIA

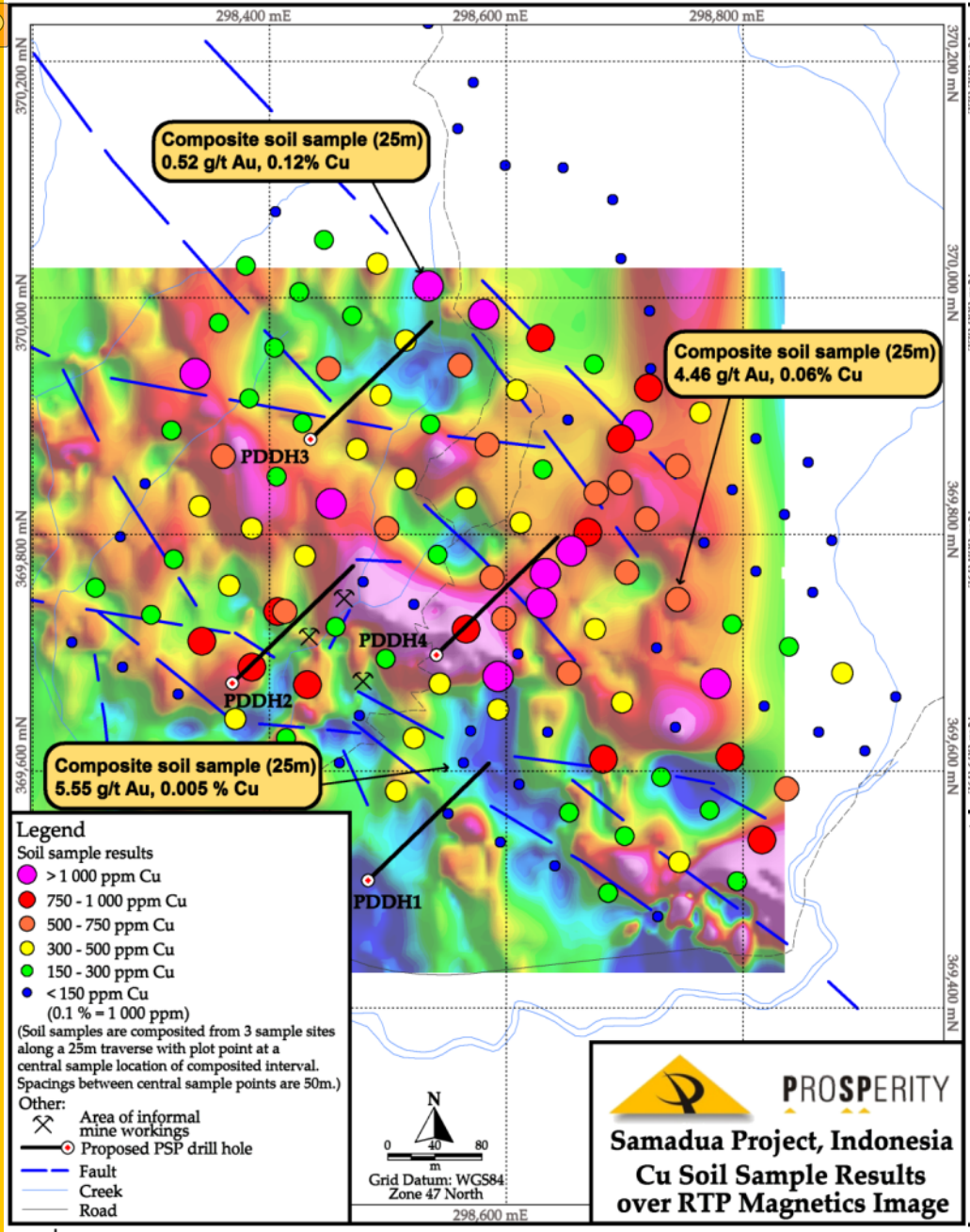


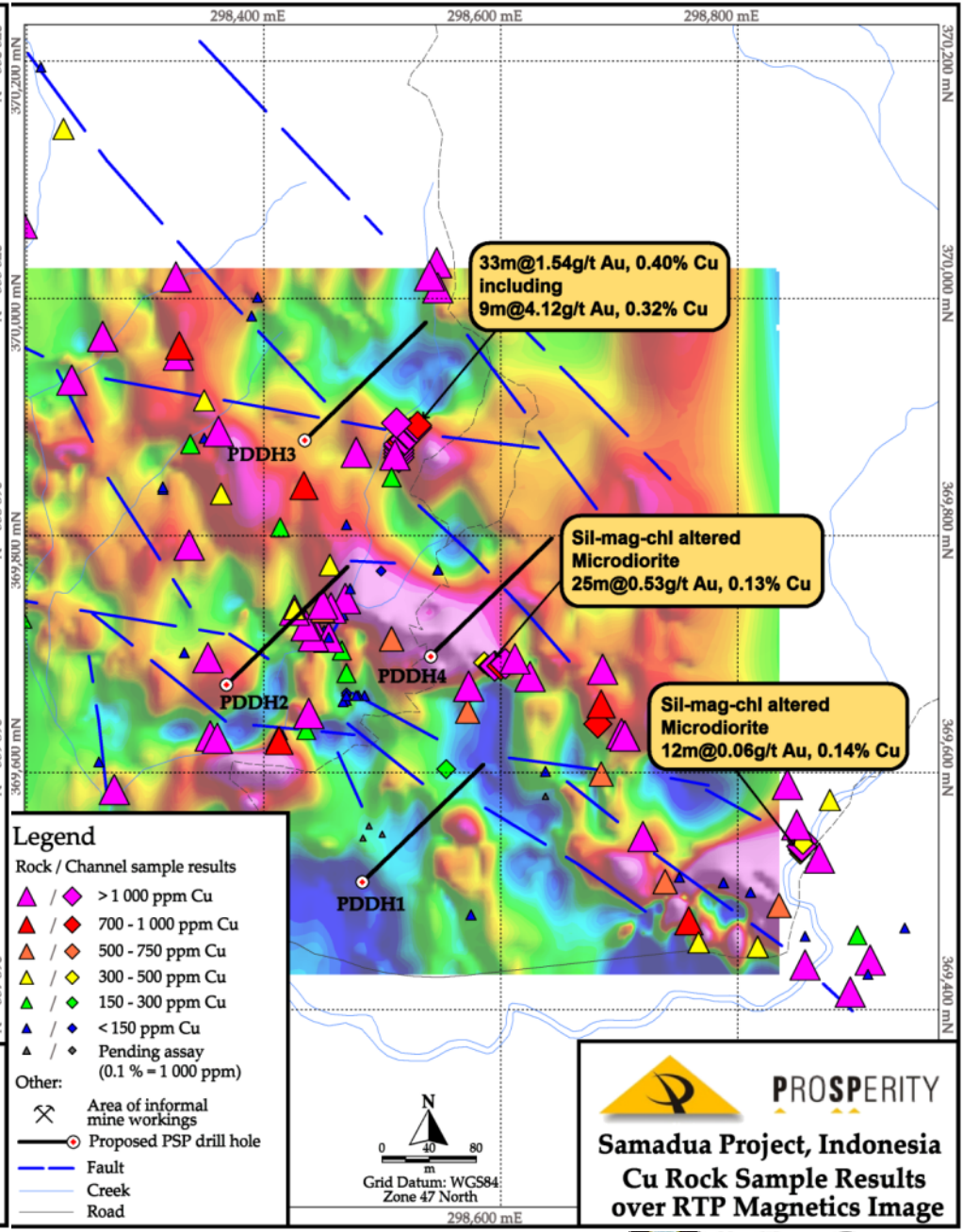


Samadua – Au & Cu in soil samples over geology & magnetics

RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

UNSW AUSTRALIA

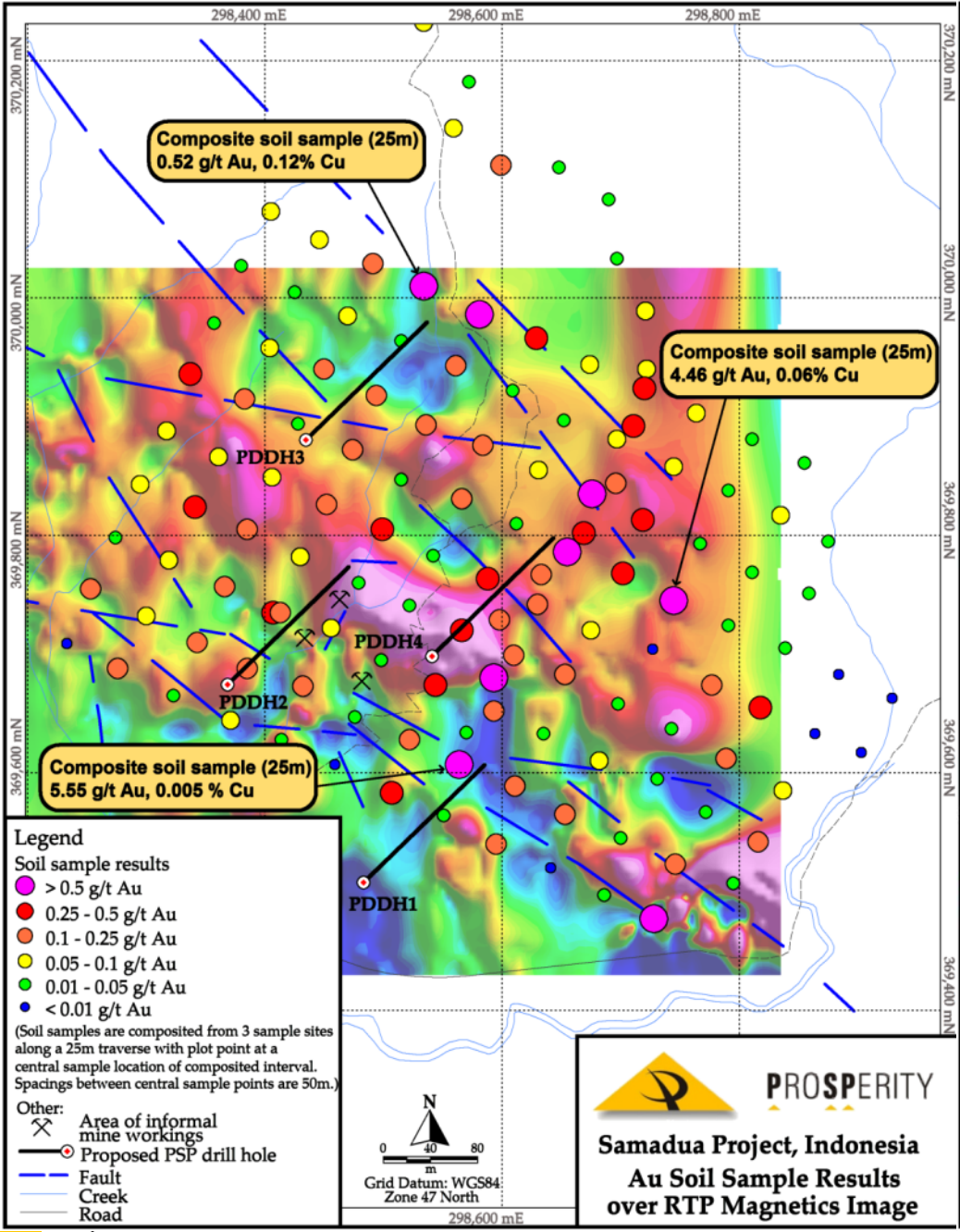


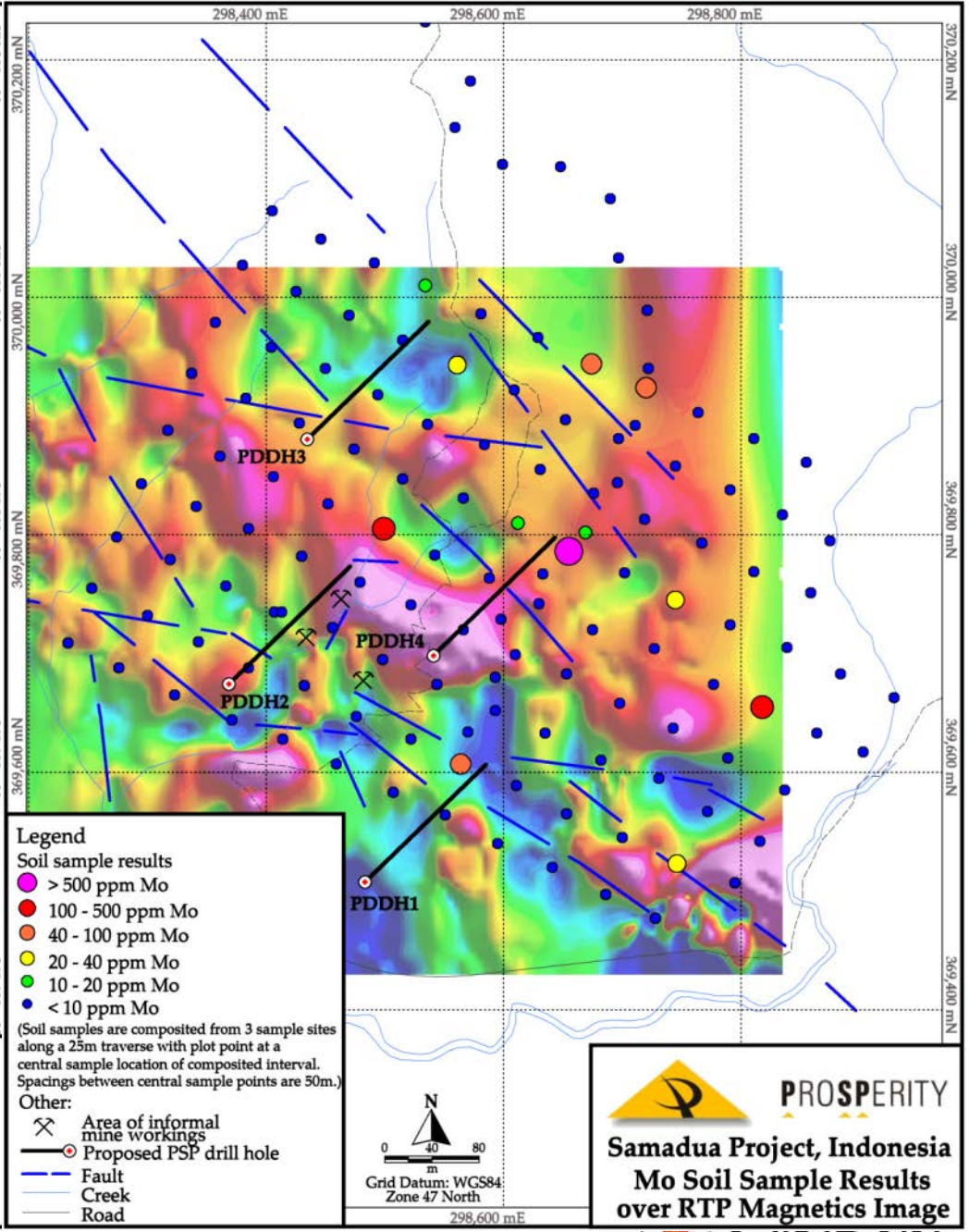


RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

Samadua Cu rock chip and soil results over detailed ground RTP TMI magnetics image

UNSW AUSTRALIA



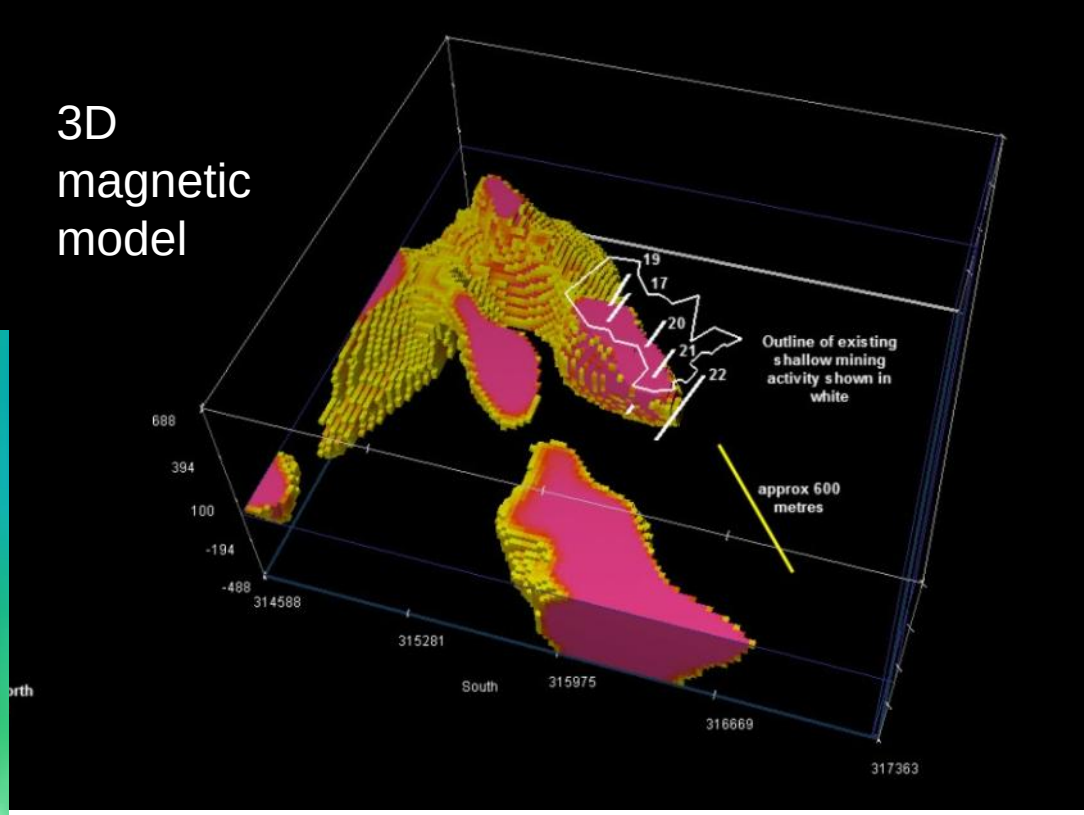


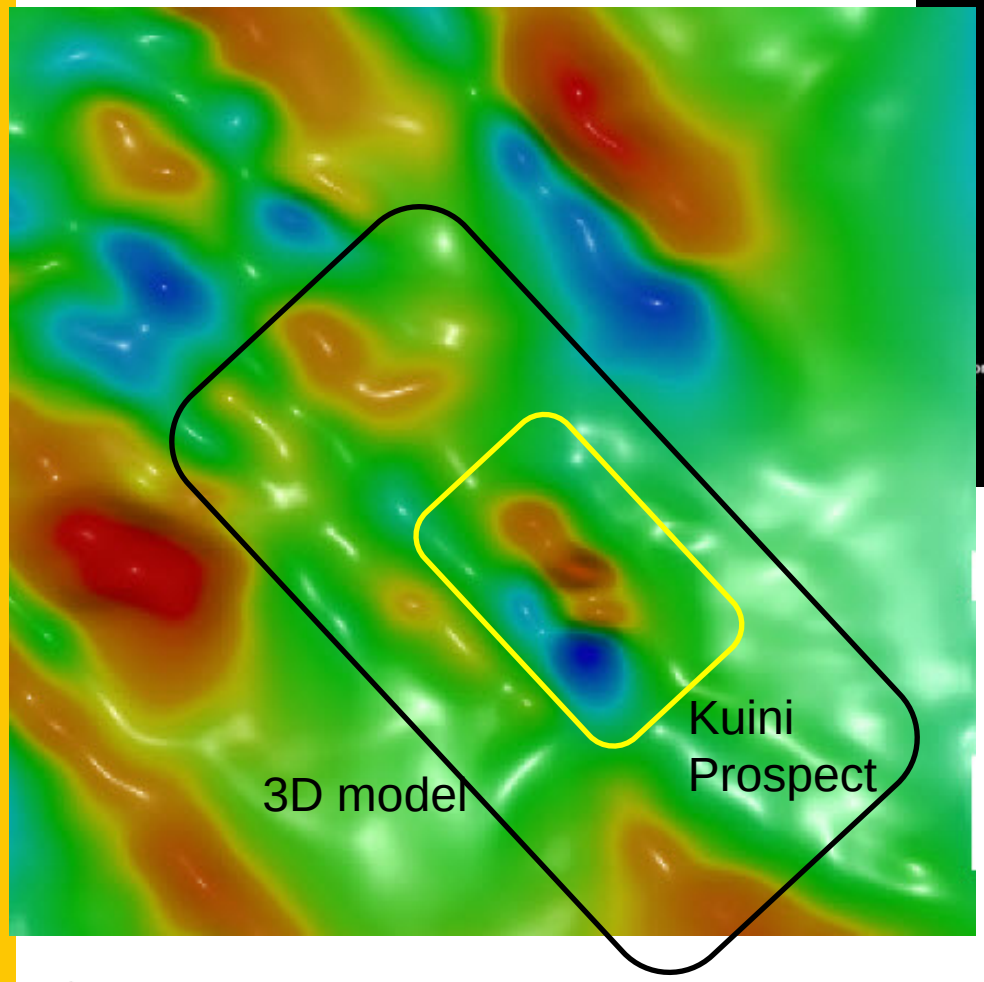
RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

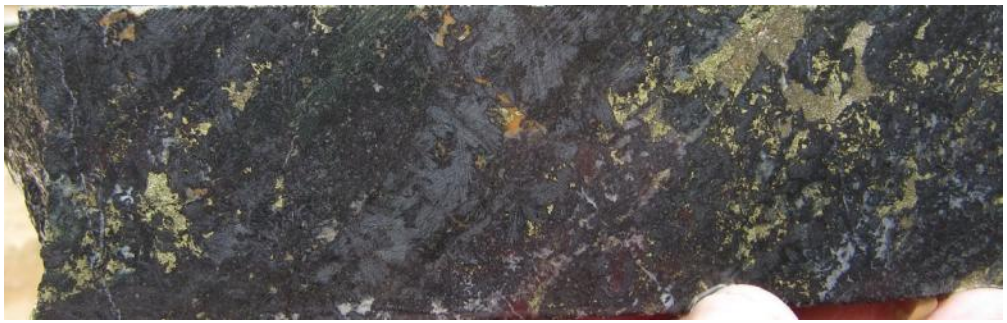
Samadua Au – Mo soil results over detailed ground RTP TMI magnetics image

UNSW AUSTRALIA

3D magnetic model





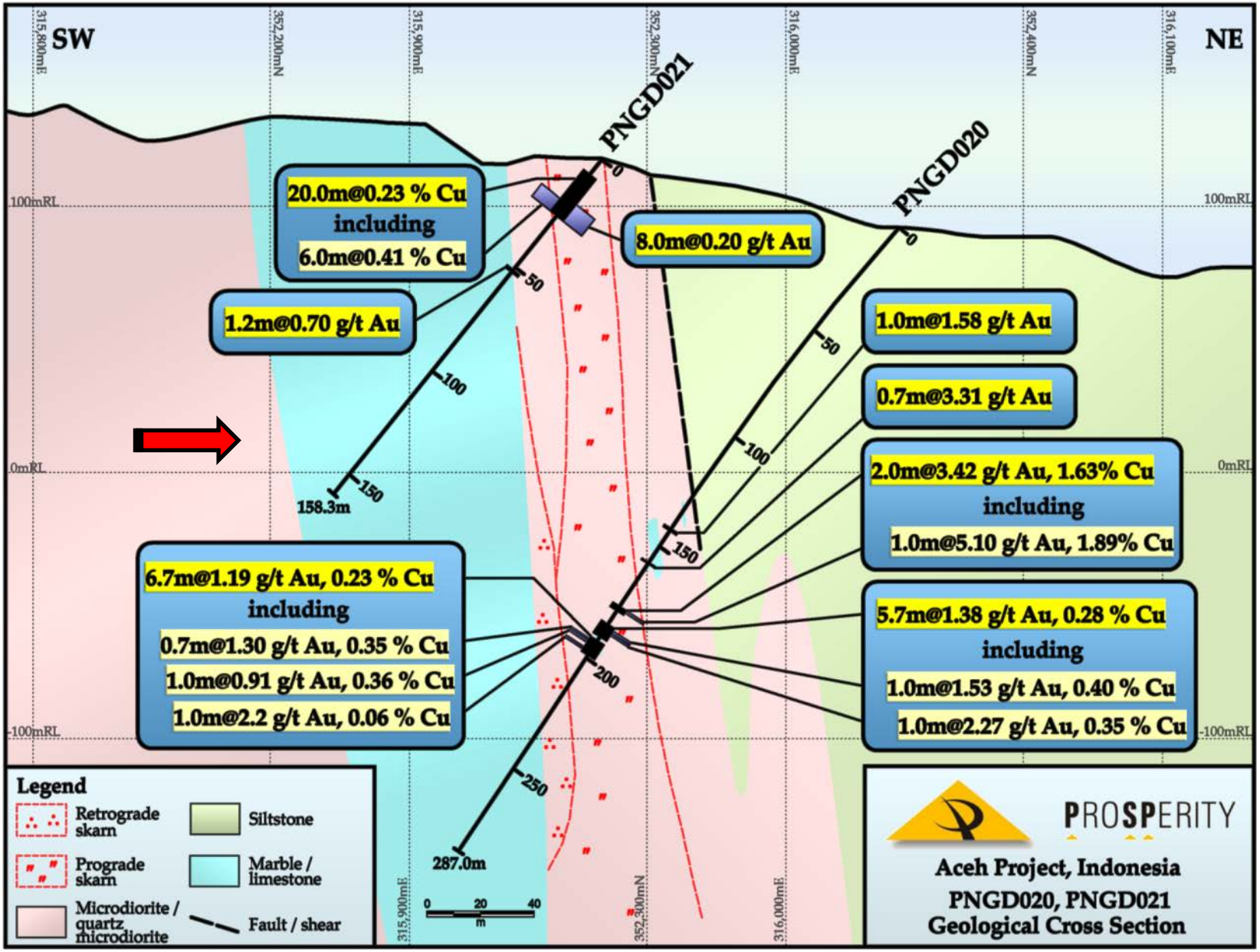


Magnetite-chalcopyrite endoskarn

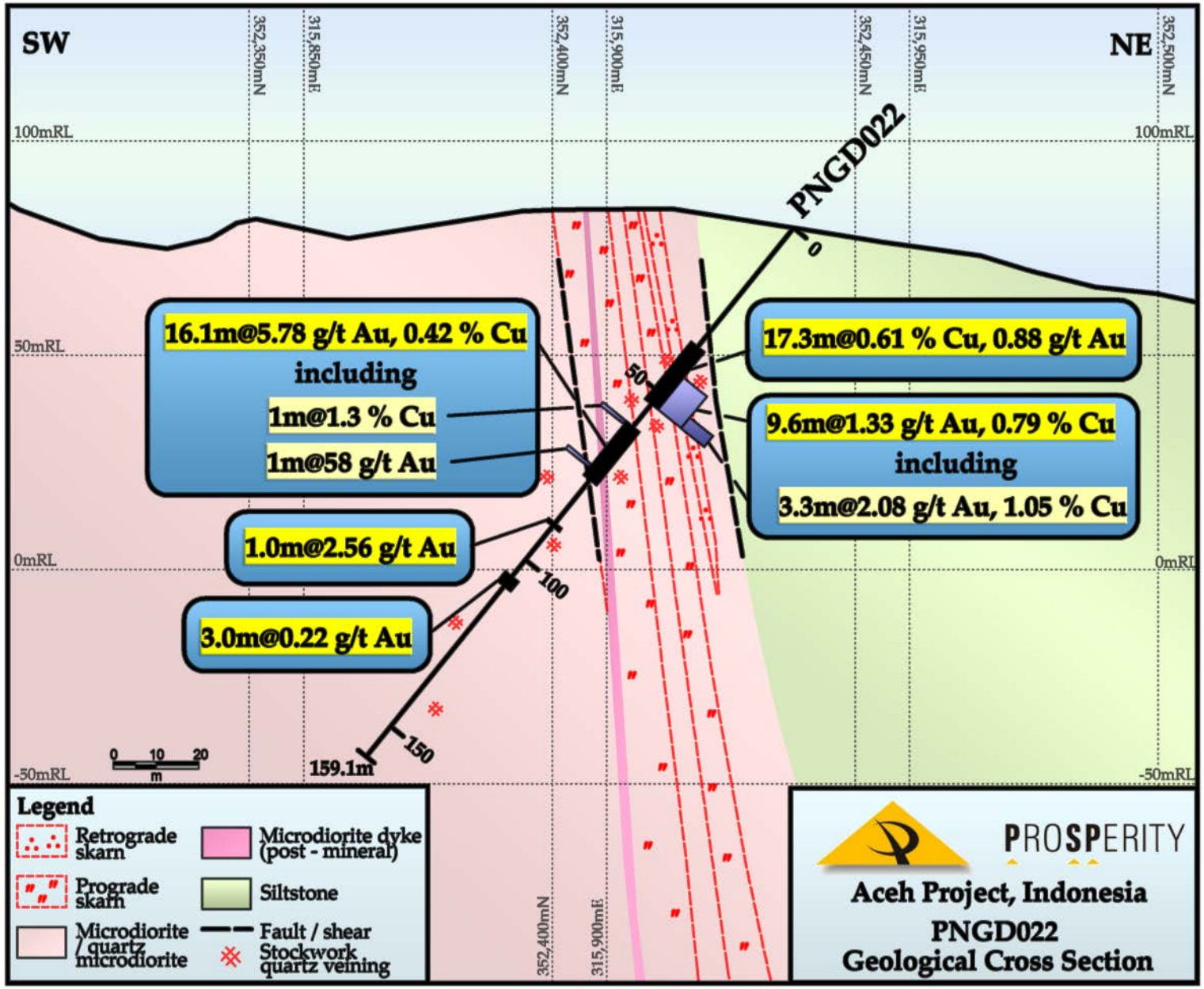
Kuini Cu-Au-Mo Prospect

RUTHERFORD MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

UNSW AUSTRALIA



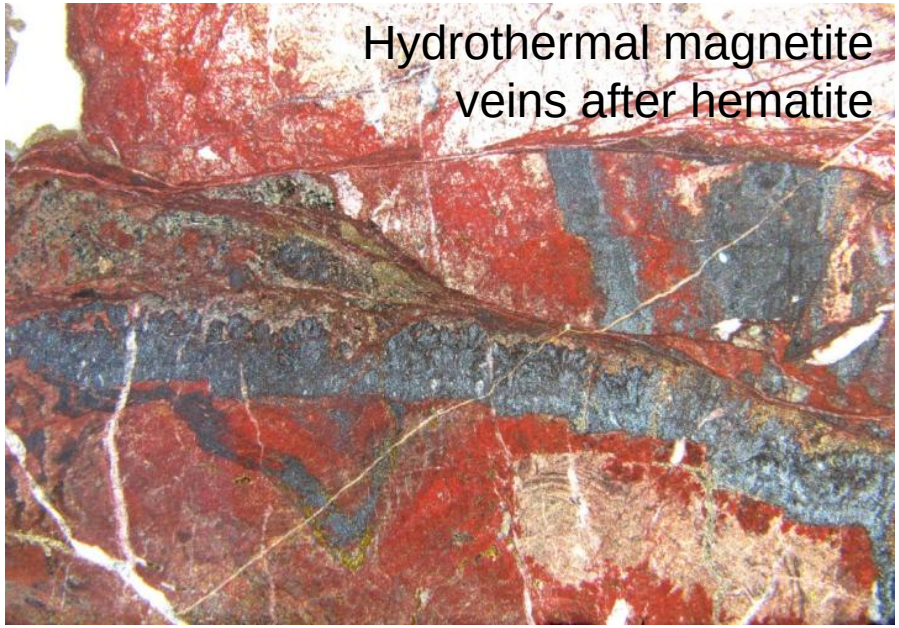
Kuini Prospect – endoskarn skarn near margin of intrusive. Note blocks of limestone in intrusive.



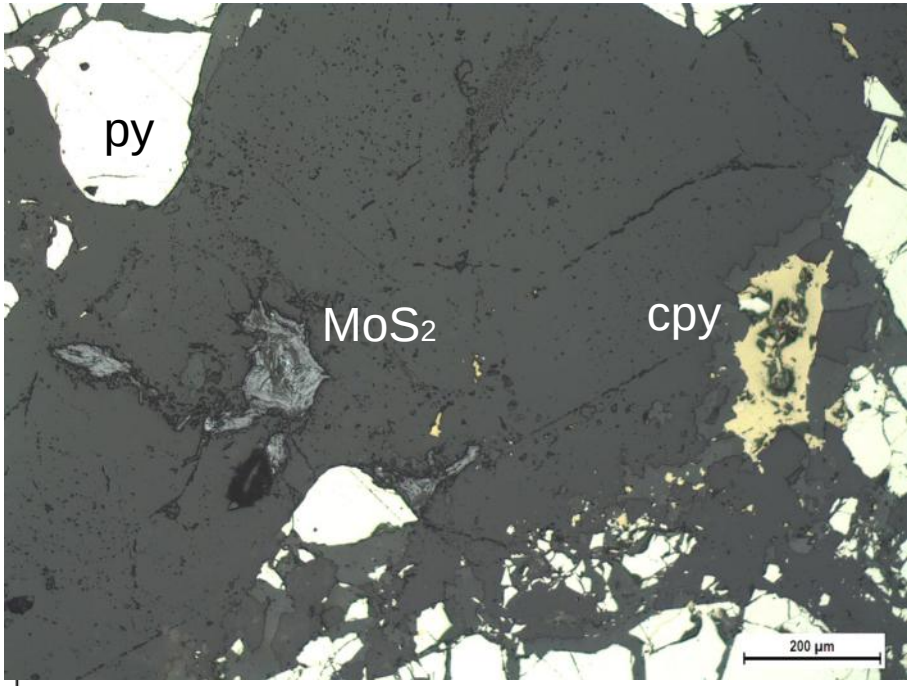
Kuini Prospect – retrograde skarn near margin of intrusive against major structural break.

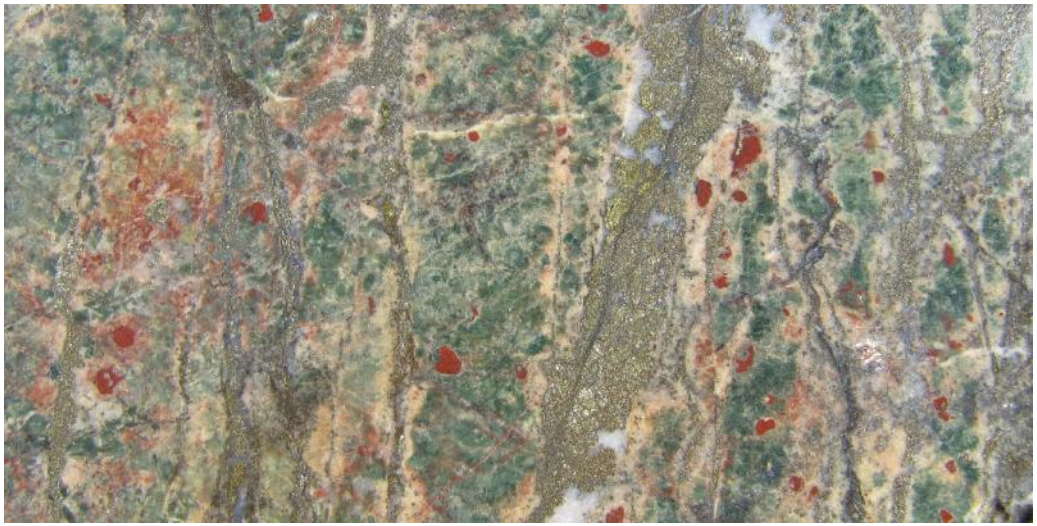
RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

UNSW AUSTRALIA



Hydrothermal magnetite veins





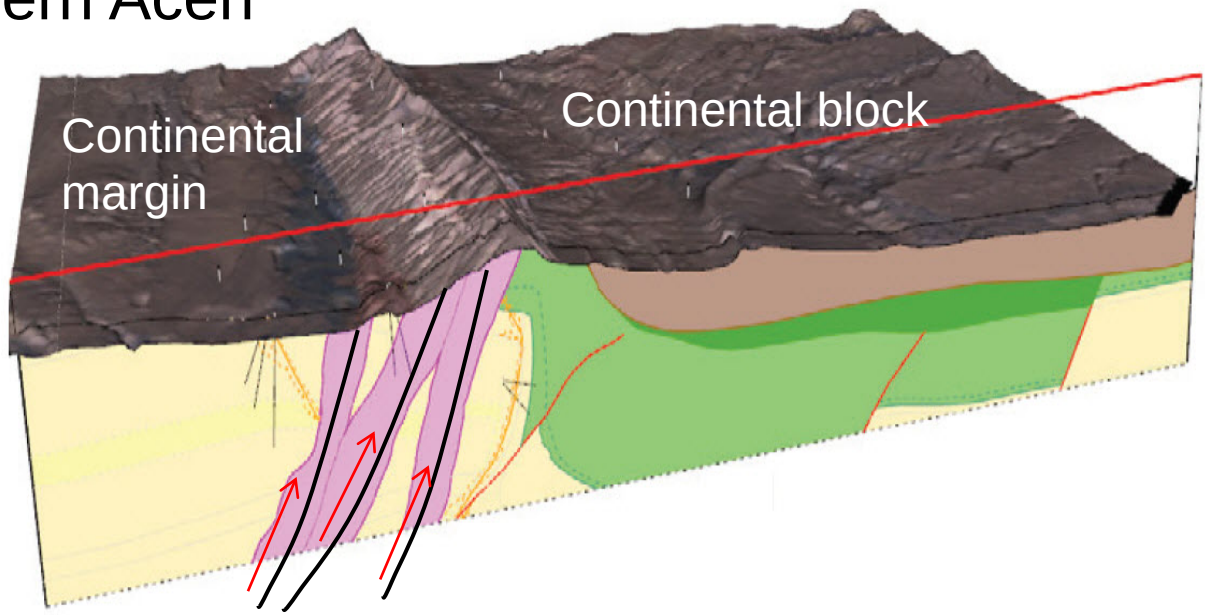
Molybdenite-chalcopyrite-pyrite sheared and retrograde endoskarn

RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

UNSW AUSTRALIA

General model for southern Aceh region

Oceanic arc subduction

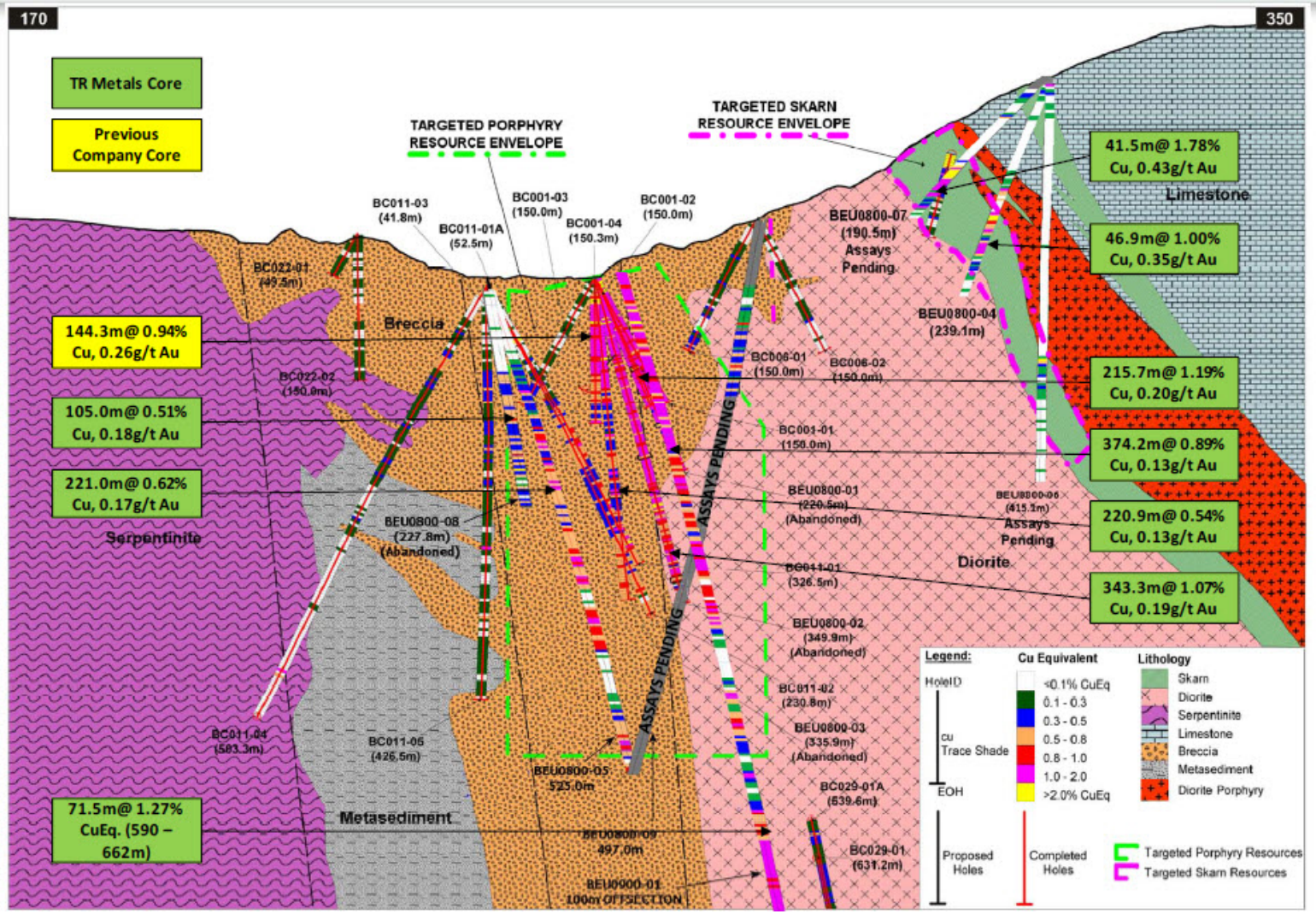


- Magma intrusion is associated with structurally active dilatant regional fault traces.
- Hydrothermal fluids sourced from the intrusions are also constrained by the structural boundaries and structural offsets related to the faults.
- Magnetite crystallisation enables the structures to be identified in aeromagnetic surveys. Routine multi-element soil and rock geochemistry can identify ore mineralisation.
- There may be extensive local alteration of intrusion hosted and country rock (skarns) and there is generally post mineralisation deformation.

Beutong Copper Project

Potential for large open pit mineable copper-gold-molybdenum resources close to infrastructure

TIGERS REALM METALS

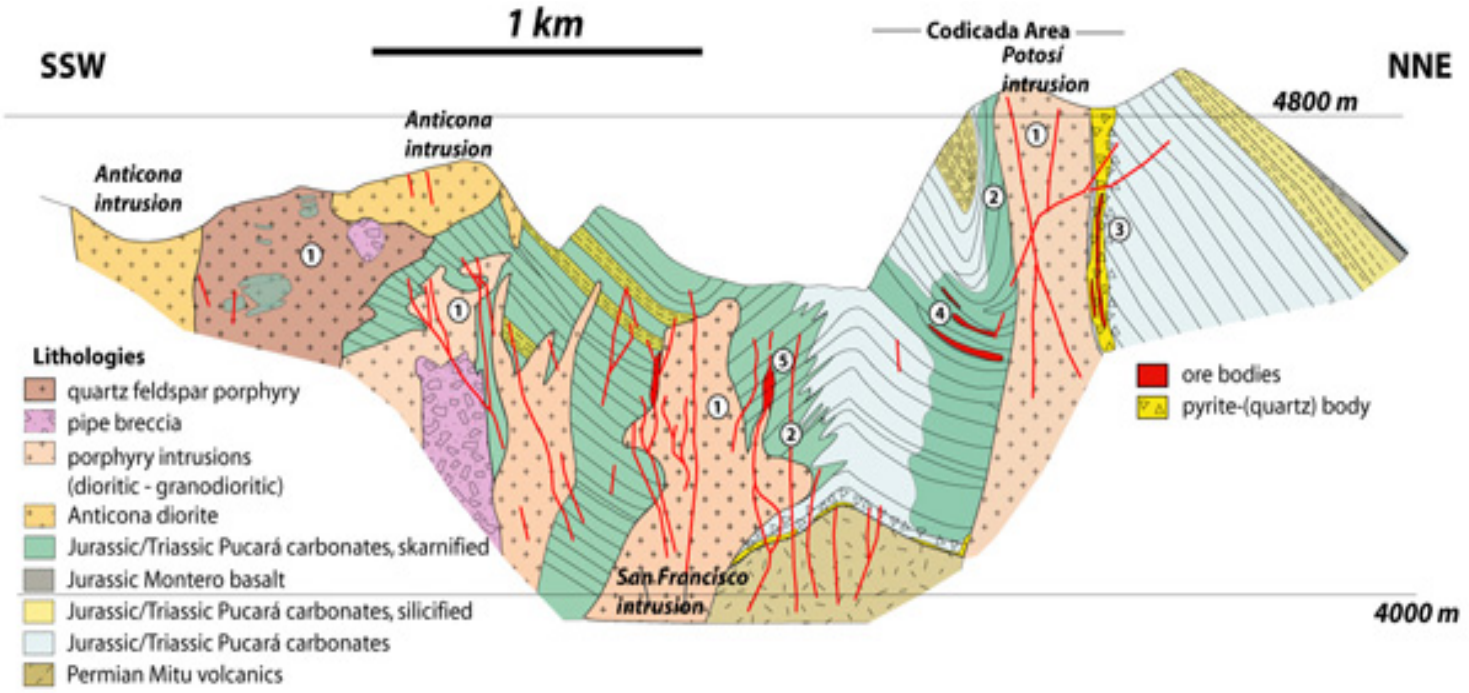


Beutong exploration project area north of Pelumat – approximately 150 Mt indicated and inferred.

RUTHERFORD MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

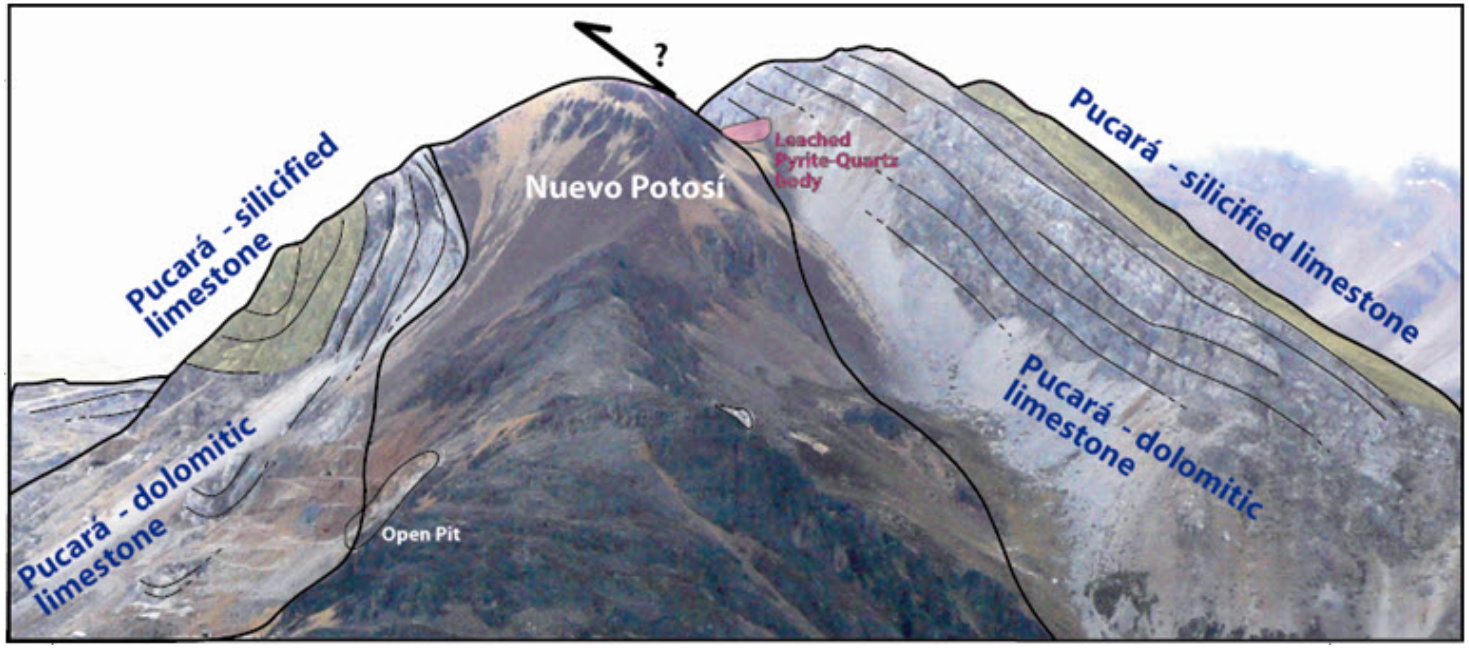
UNSW AUSTRALIA

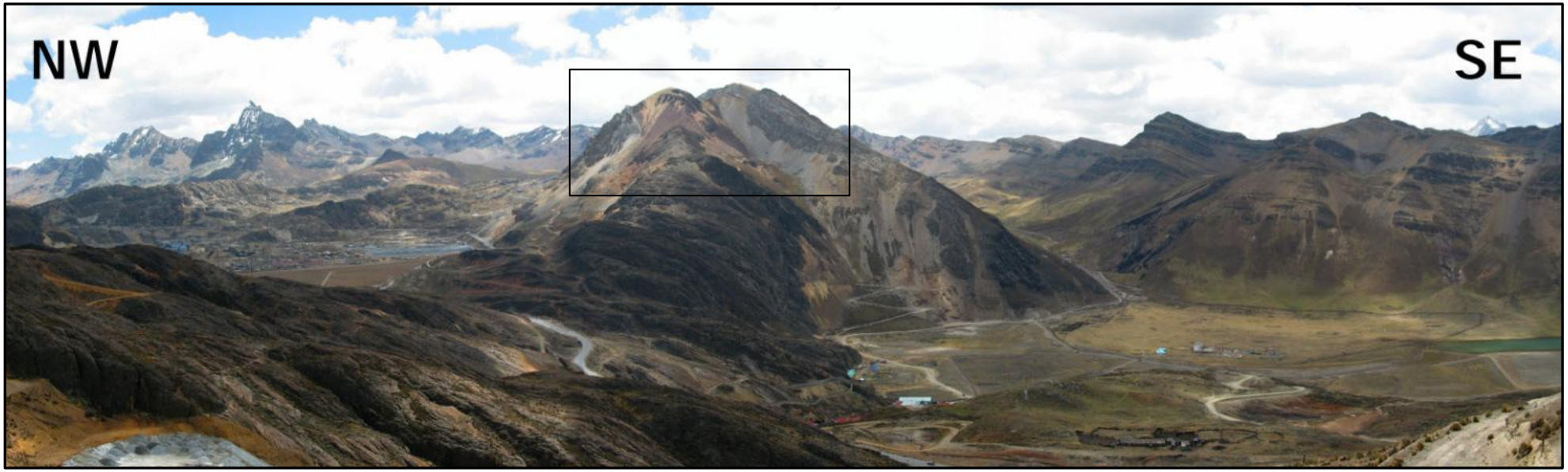
An analogue at the other side of the world – without the trees



Summary geological section through
Morococha District, Peru

After Leon (2007)





RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

Potosi Intrusion, Codiciada Area, Morococha, Peru

Thanks to Honza Catchpole for the images.

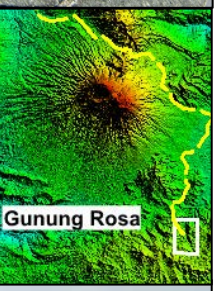
UNSW AUSTRALIA

Farewell to Aceh

Now to Java

RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

UNSW
AUSTRALIA



Exploration of Gunung Rosa Au-Ag-base metal mesothermal vein system in an eroded volcanic complex, Western Java, Indonesia

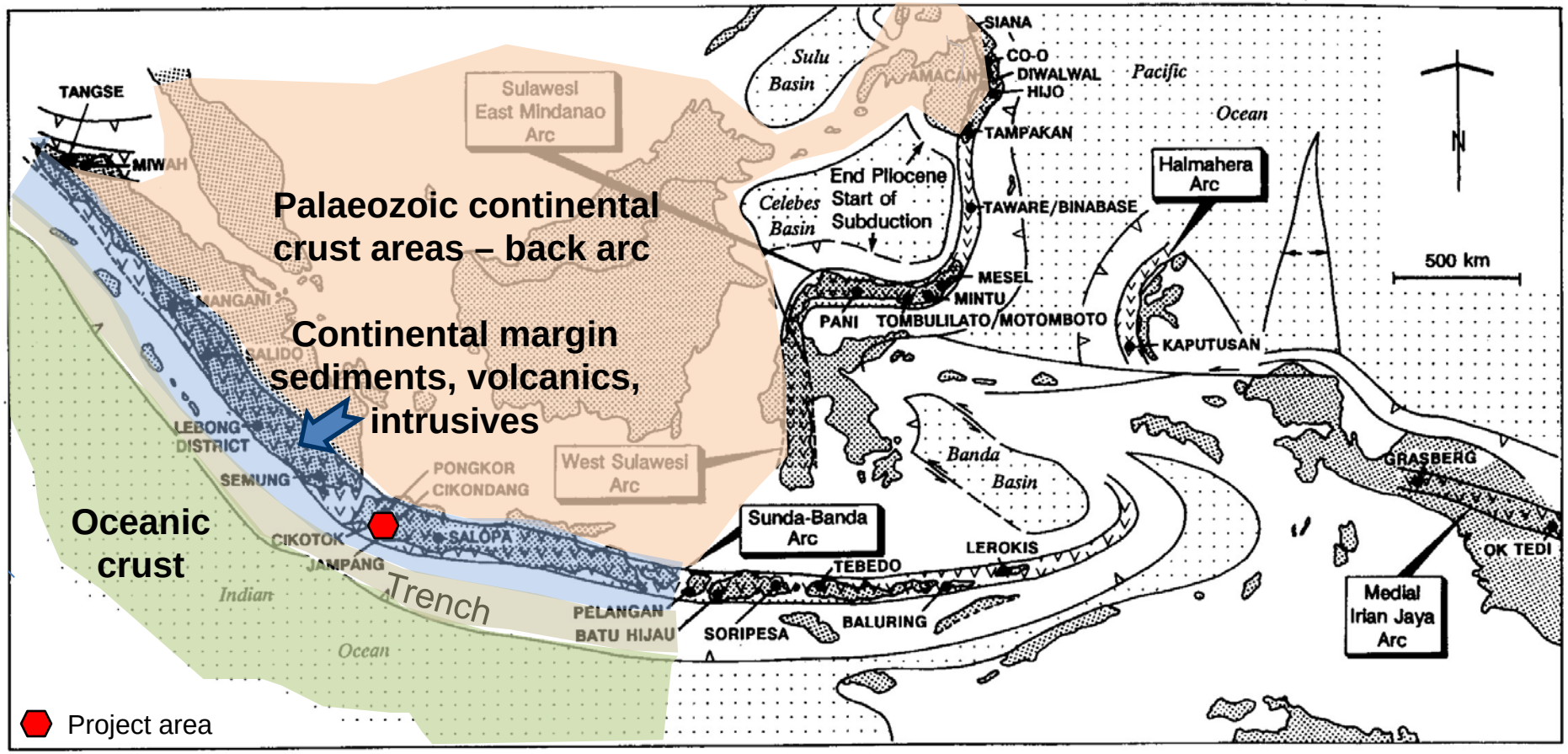
RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

UNSW
AUSTRALIA

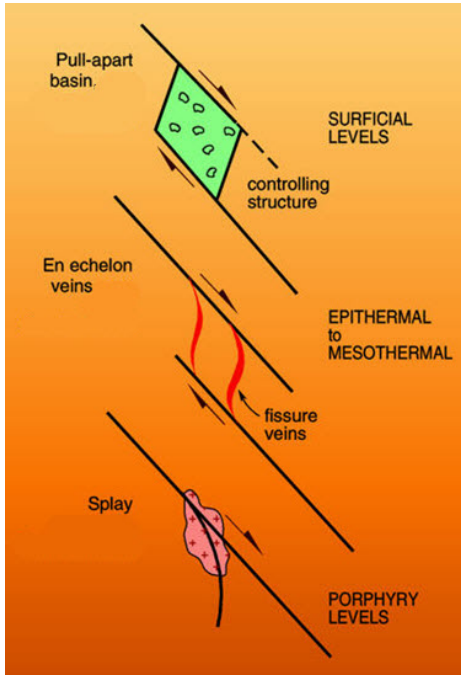
Location of the Gunung Rosa Project

RUTHERFORD MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

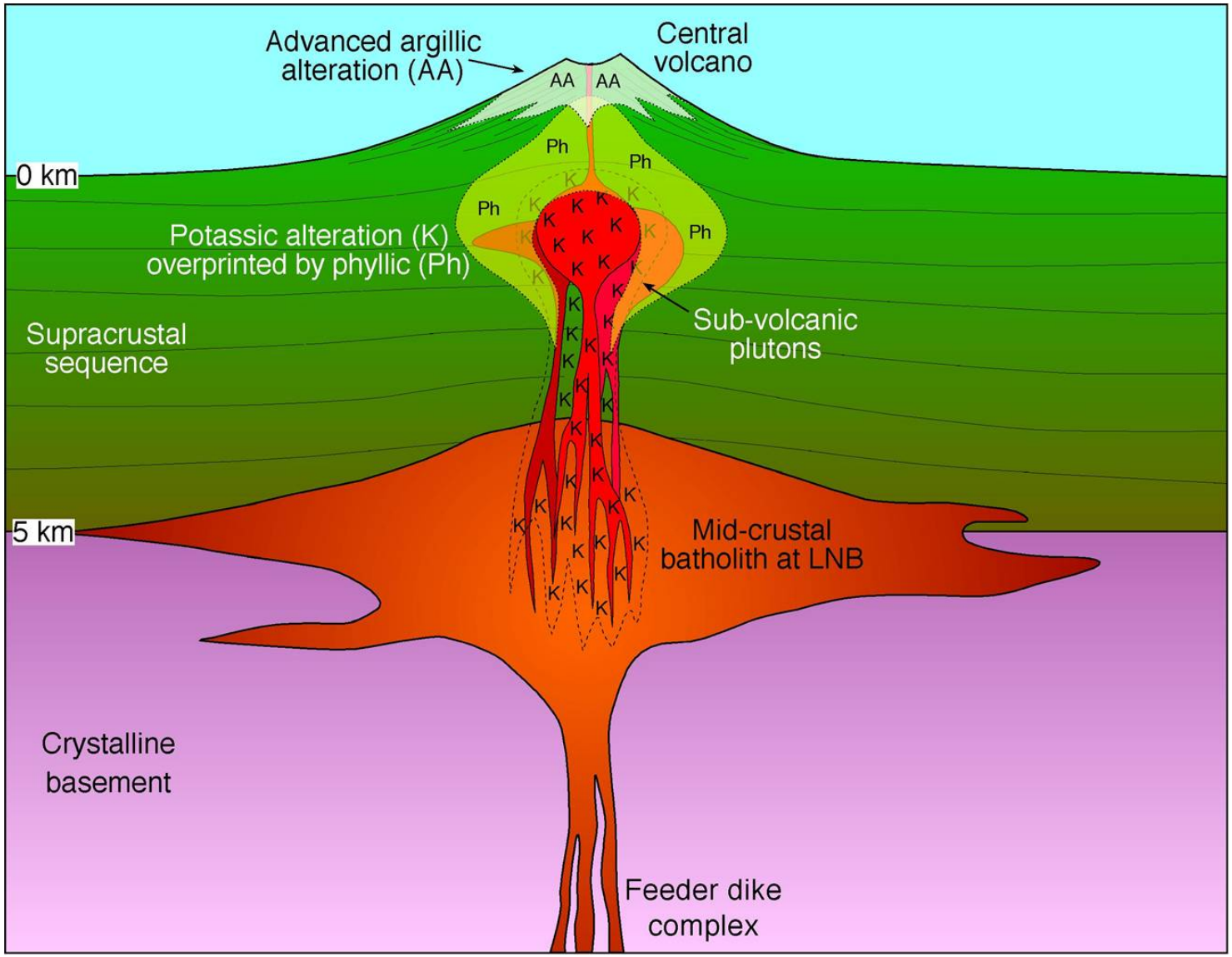
UNSW AUSTRALIA



Pliocene palaeogeography and magmatic arcs of the Indonesian region showing major mineralised centres.



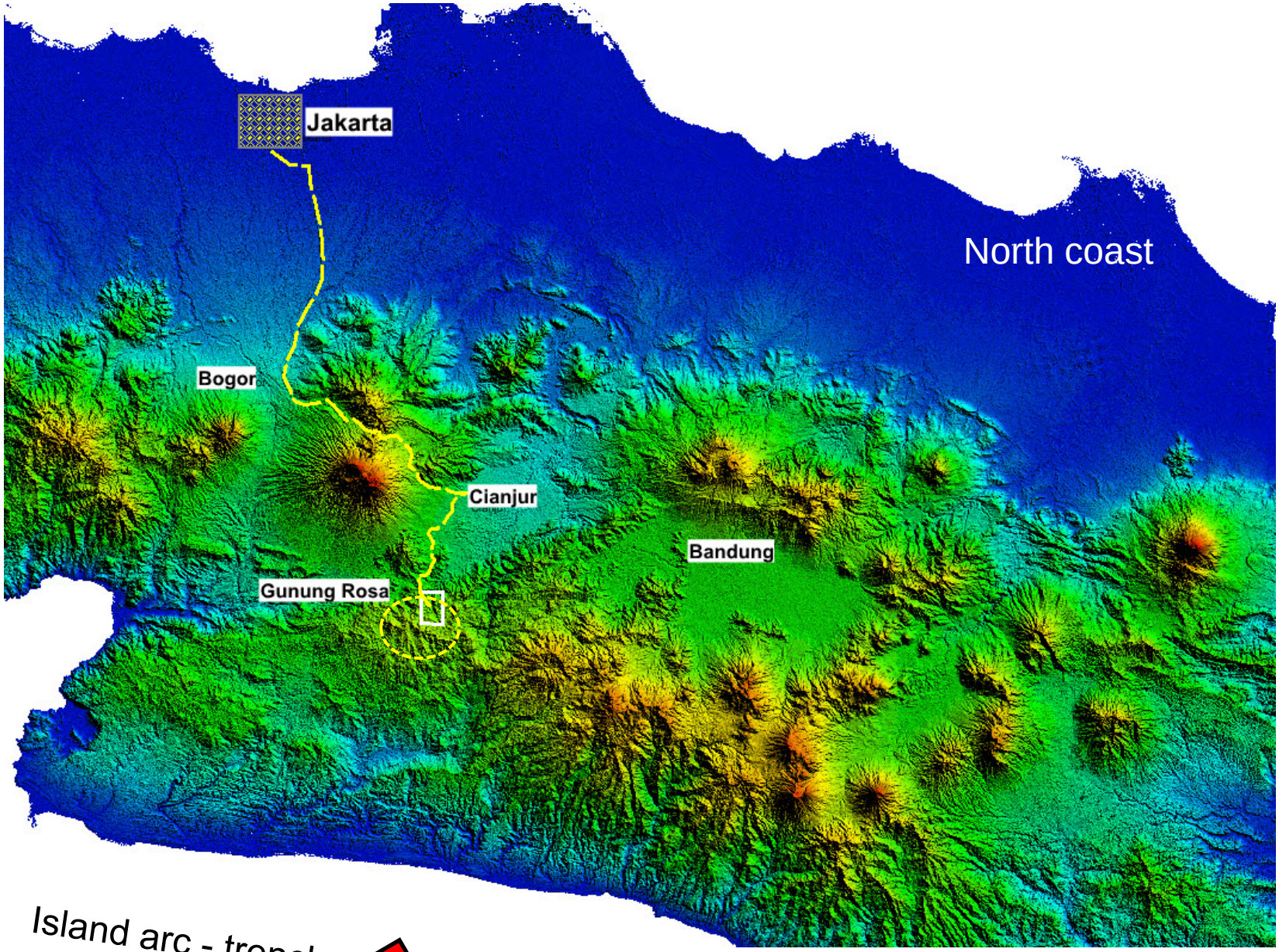
Structural model as mineralisation host



Schematic volcanic intrusive model of Richards (2003)

Economic Geology V98: pp1515-1533

Mt Mahameru behind Mount Bromo, East Java.
This highlights the short life of volcanic intrusive centres in active tectonic zones



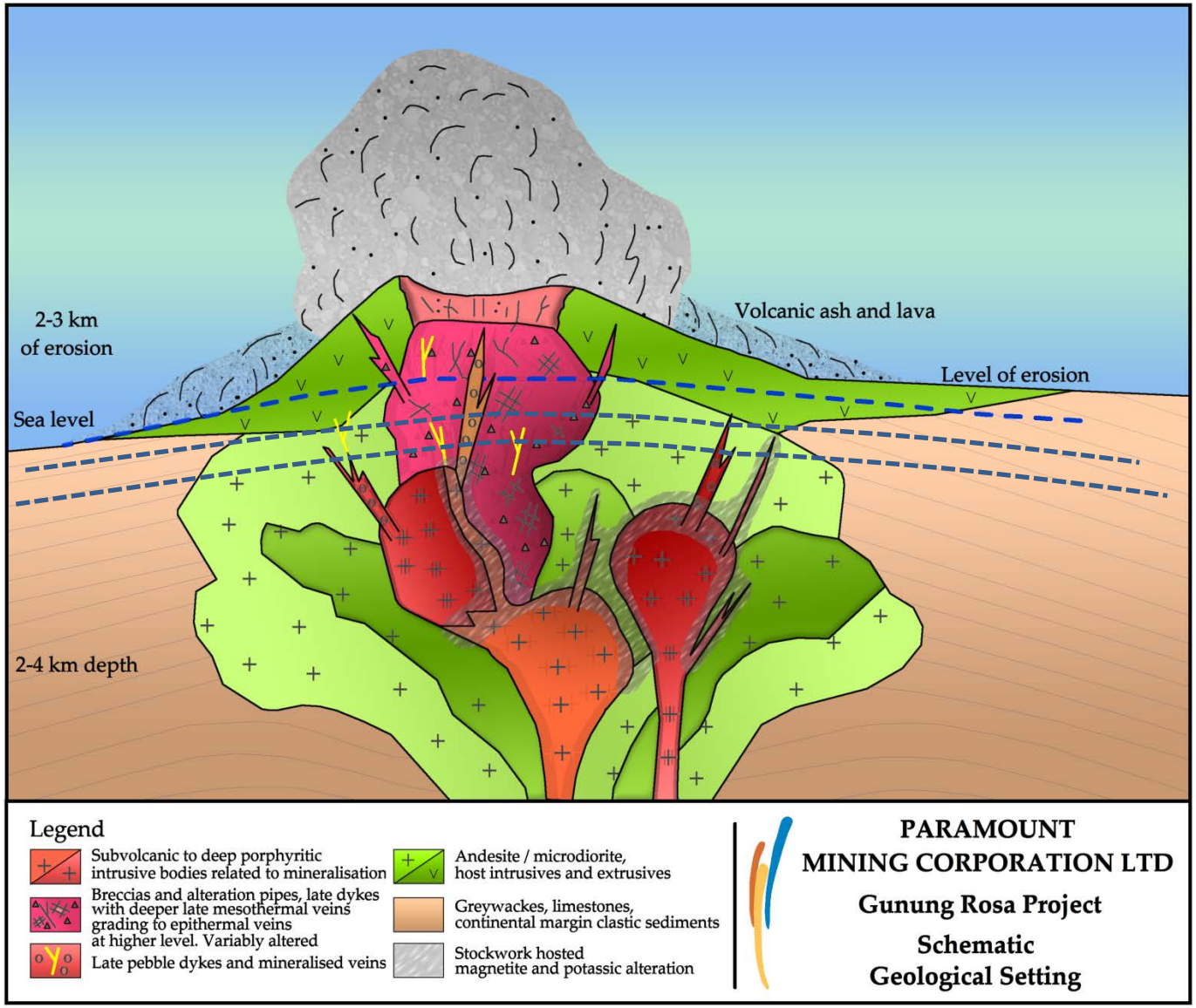
Island arc - trench

subduction

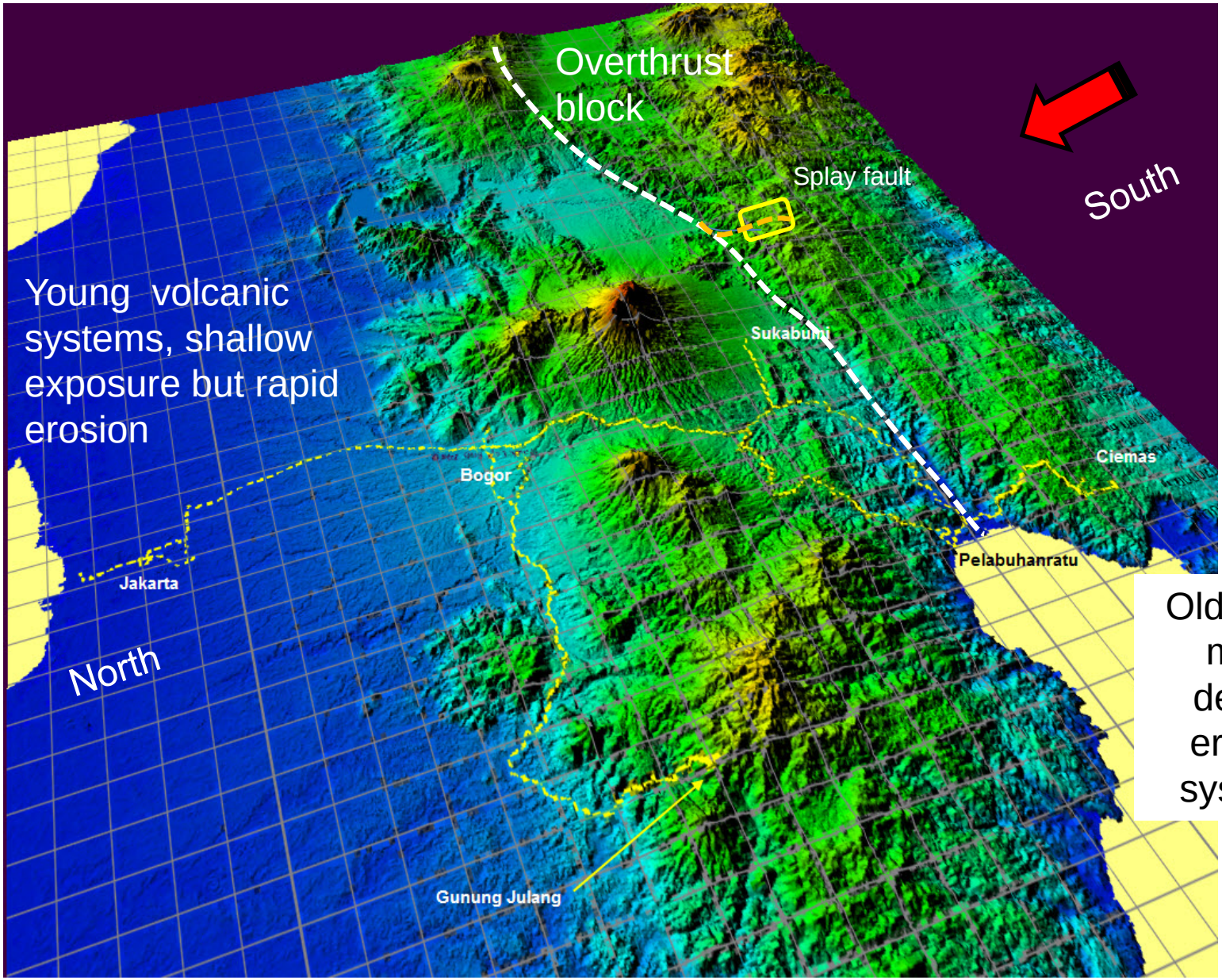
Western Java

RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

UNSW AUSTRALIA

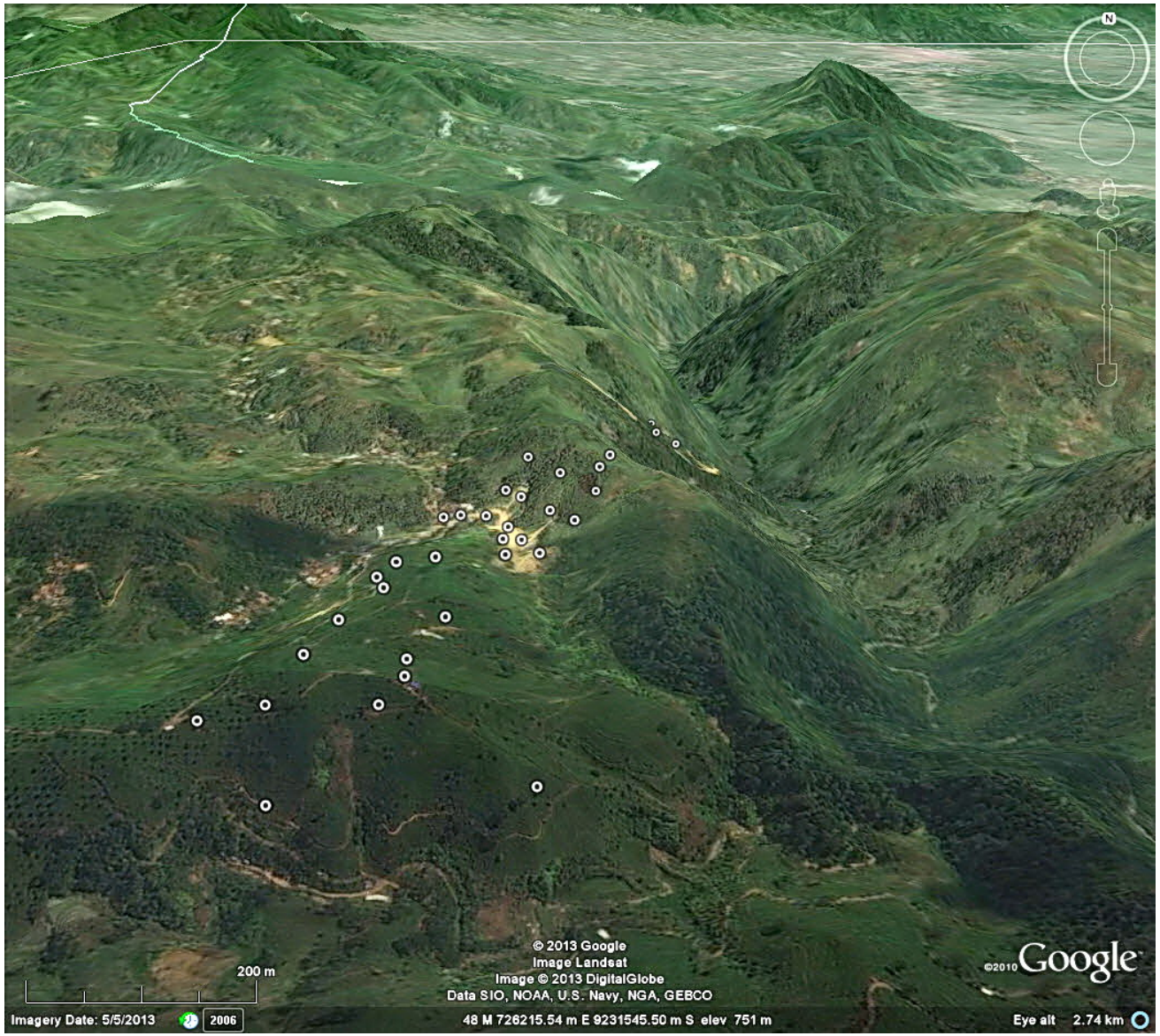


Schematic model of a volcanic intrusive centre



Older and more deeply eroded systems

Tectonic setting southern coast of Java

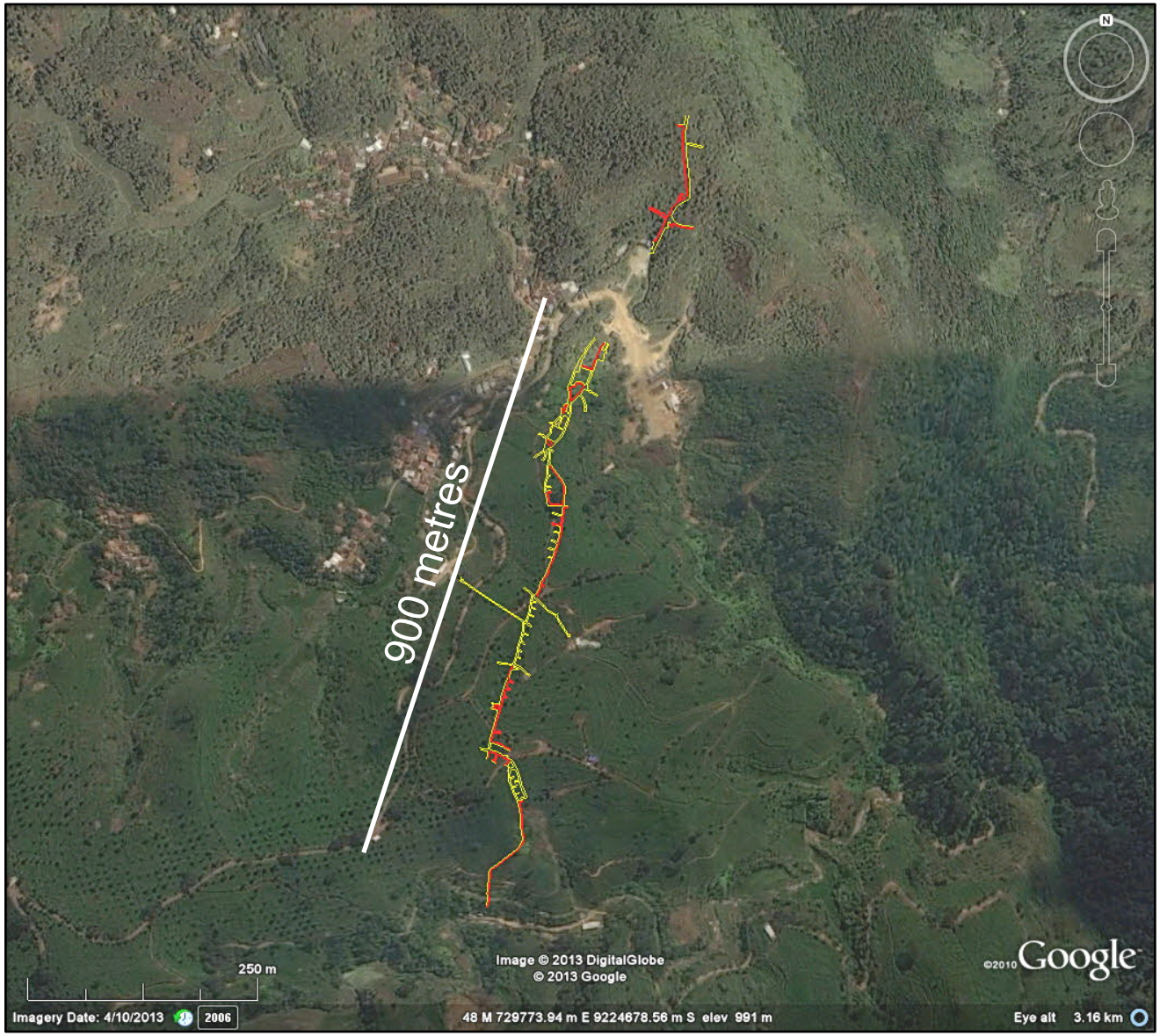


Terrain in the Gunung Rosa project area

(2X vertical exaggeration)

RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

UNSW AUSTRALIA



Location of historic underground mining activities

RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

UNSW AUSTRALIA

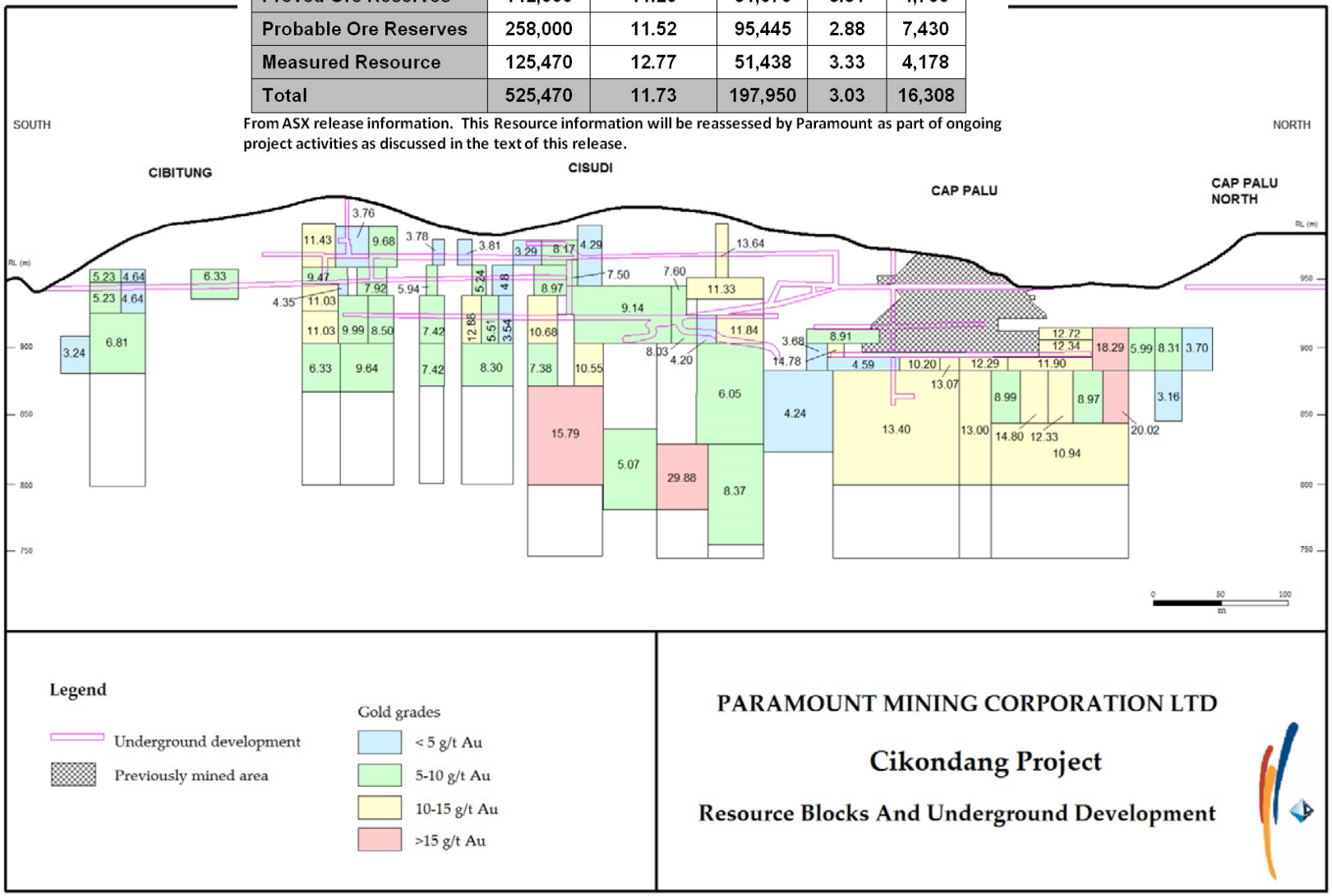
The proposed 1992 plant site as seen today. It is planned to reuse this for the new development.
Vein trace shown by yellow dashed line.
North to right, view to west.

Tea plantation covers much of the area of interest beneath which the main vein occurs but it rarely outcrops.

Century Mines and Metals NL Resources above 900m RL using 3g/t cut off.

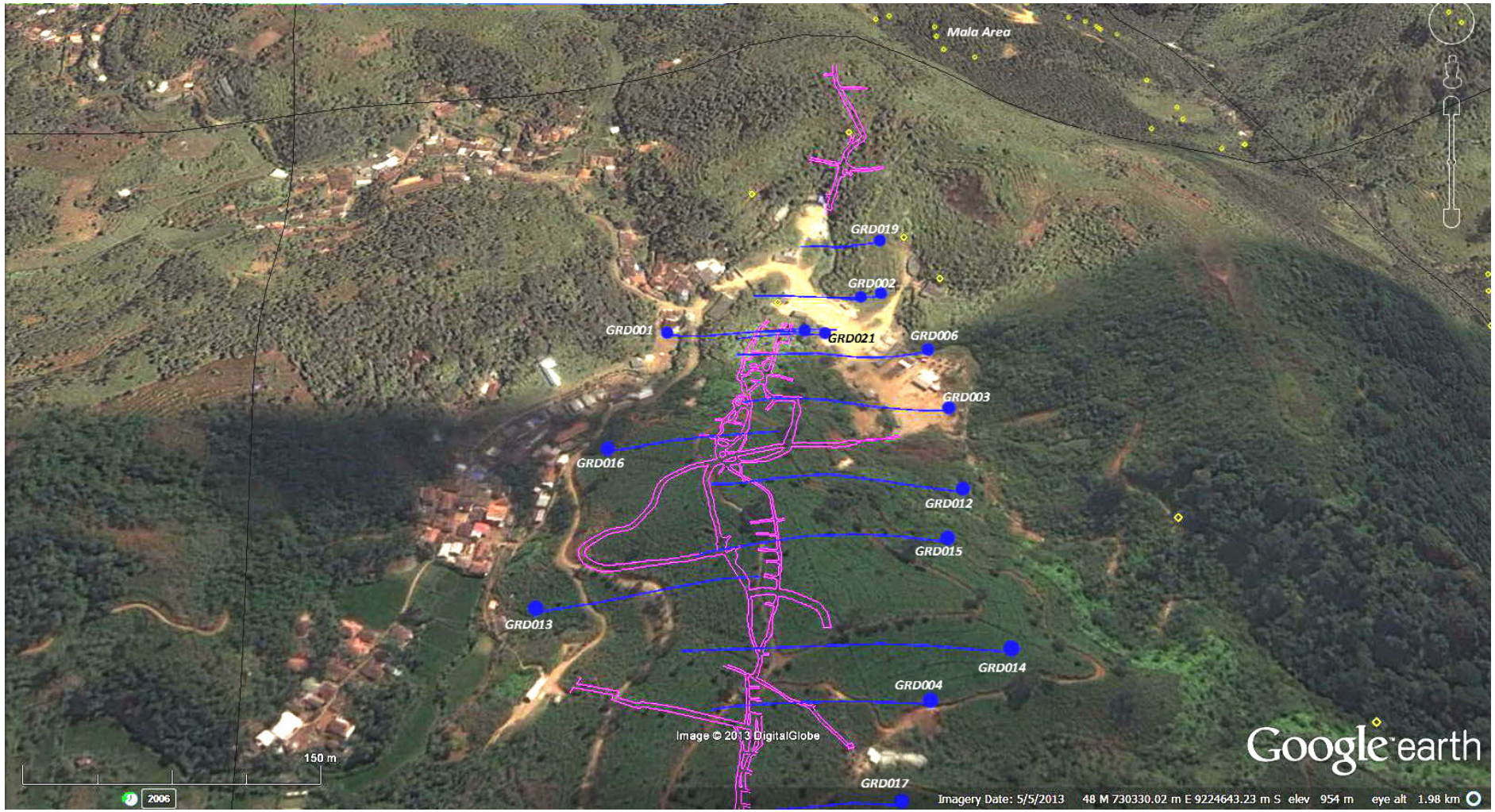
	Tonnes	Au g/t (cut)	Au oz	Zn %	Zn t
Proved Ore Reserves	142,000	11.20	51,070	3.31	4,700
Probable Ore Reserves	258,000	11.52	95,445	2.88	7,430
Measured Resource	125,470	12.77	51,438	3.33	4,178
Total	525,470	11.73	197,950	3.03	16,308

From ASX release information. This Resource information will be reassessed by Paramount as part of ongoing project activities as discussed in the text of this release.



Historic mining and resource assessment blocks as in 1992.

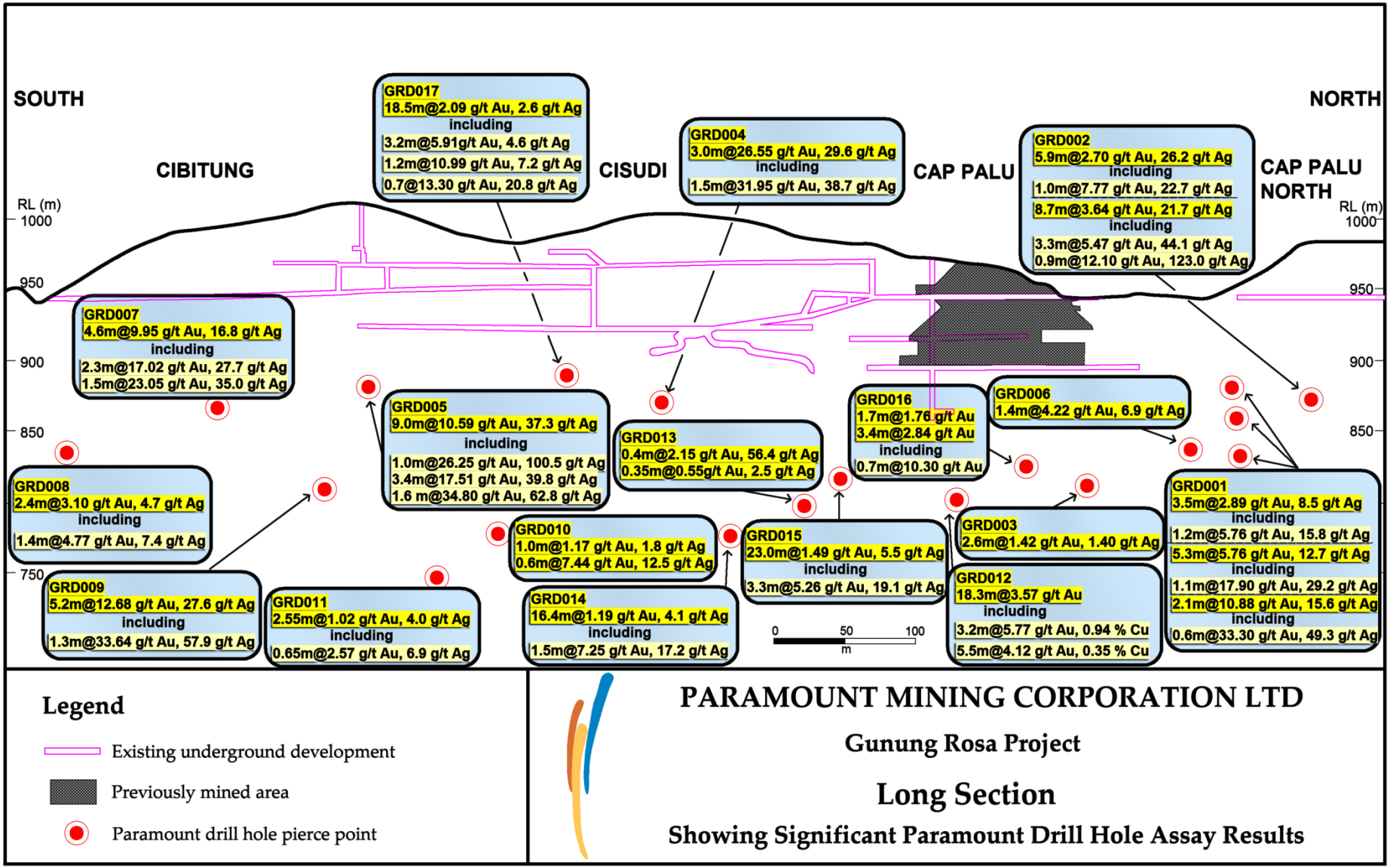
(Data from Century Mines and Metals NL - ASX Report)



A 17 hole due diligence drilling program was undertaken from mid 2011 - early 2012 beneath the main 1992 development workings.

Main vein mined out in old workings

Cap Palu decline



Summary results 17 hole due diligence program mid-2011-early 2012

All sub 900 m RL and below water table and old workings

RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

UNSW AUSTRALIA

GUNUNG ROSA Hole GRD004- High Grade Intersection
152.8 – 155.8 Metres (Recovery ≈ 95%)

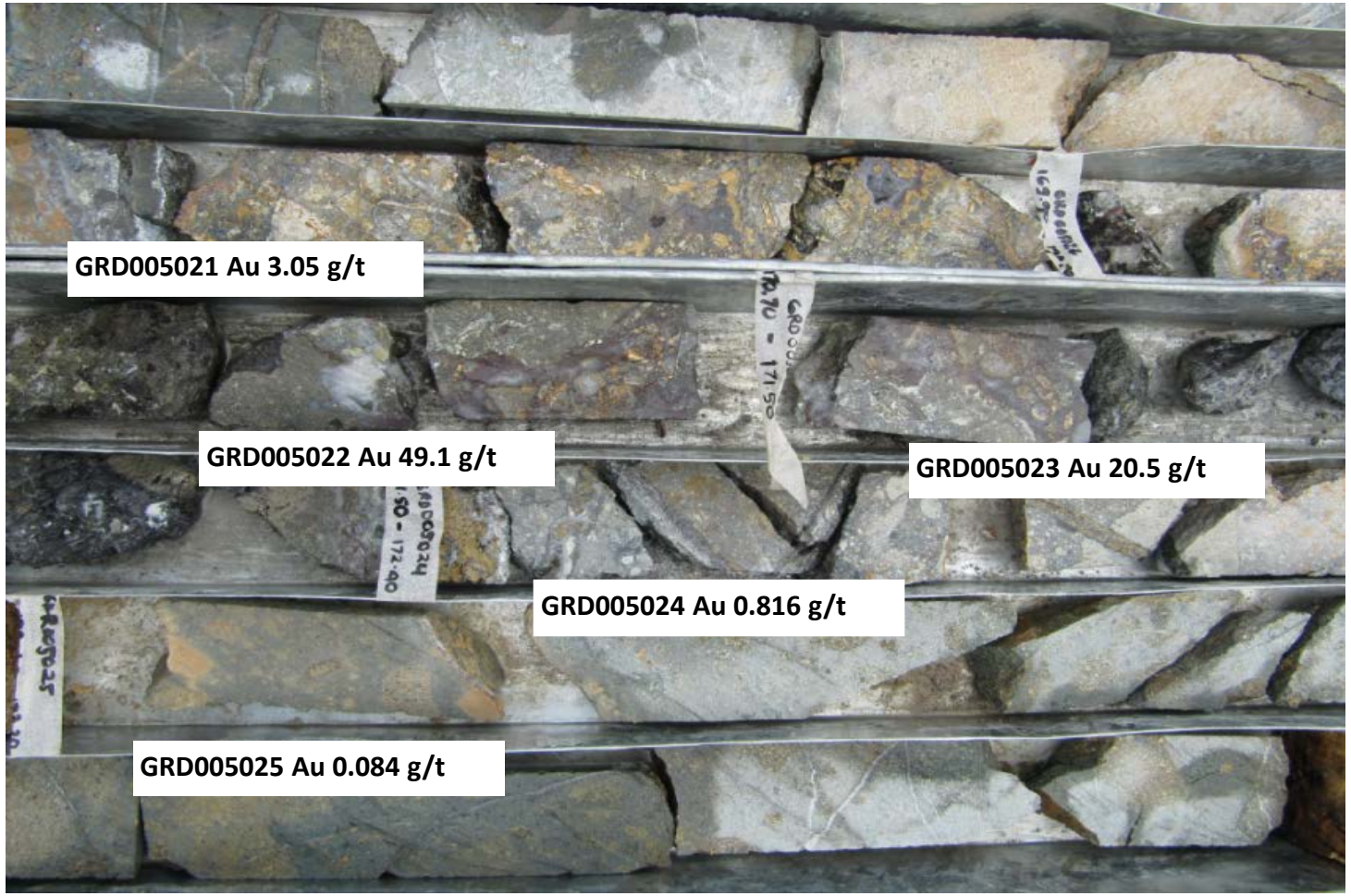
Drill Pad GRD004

3.0 m @ 26.55 g/t Au; 29.6 g/t Ag; 0.29% Zn

RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

UNSW AUSTRALIA

GUNUNG ROSA Hole GRD005- High Grade Intersection
168.9 – 172.4 Metres (Recovery ≈ 95%)



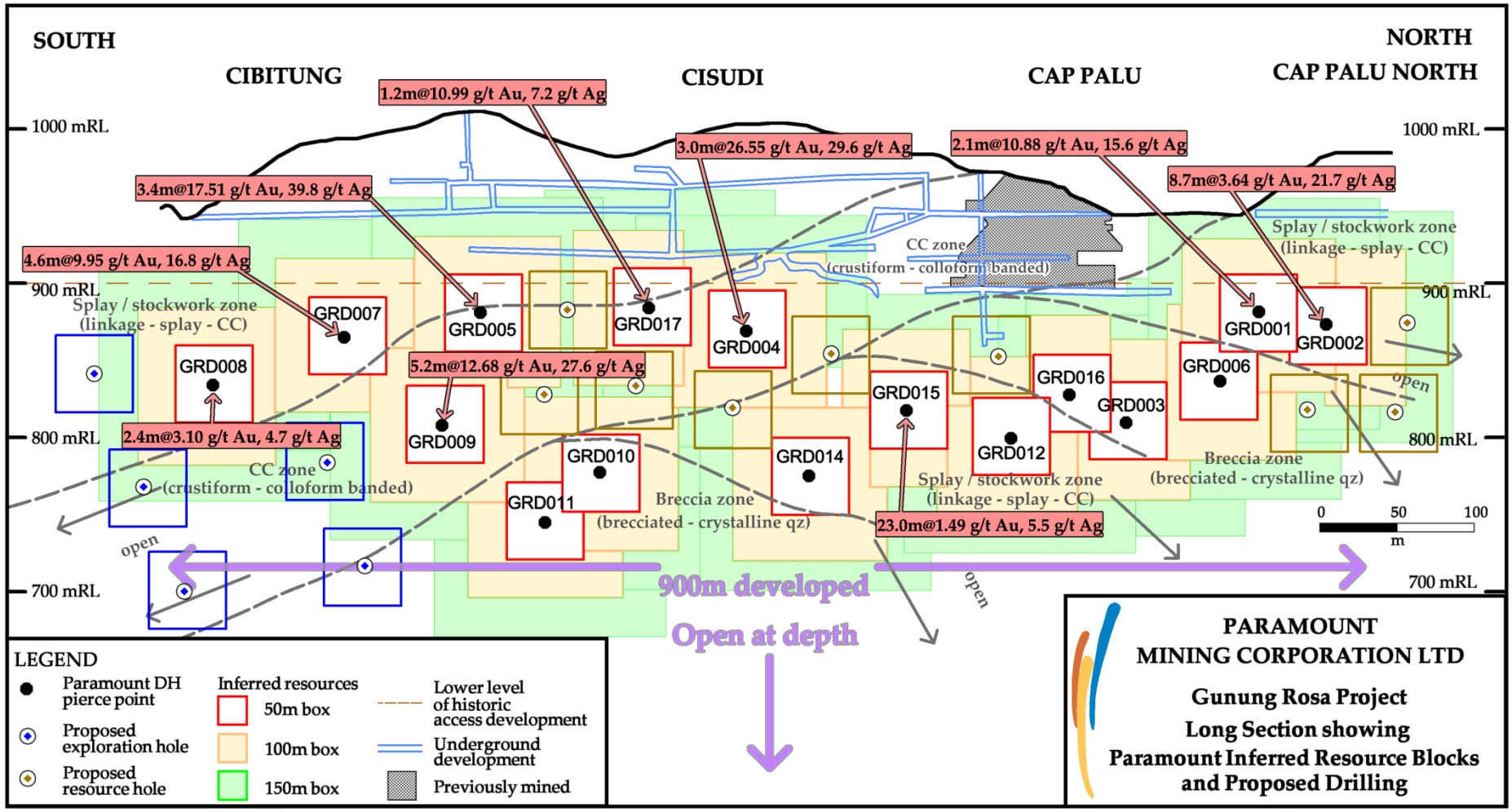
GUNUNG ROSA – Hole GRD009 Assay Results – Grade Distribution in Hole

	From	To	Interval	Au g/t						
GRD009034	220.50	221.30	0.80	0.35						
GRD009035	221.30	222.30	1.00	0.25						
GRD009036	222.30	225.30	3.00	0.02						
GRD009037	231.35	232.35	1.00	0.17						
GRD009038	232.35	233.35	1.00	0.12						
GRD009039	233.35	234.35	1.00	0.04						
GRD009040	234.35	235.35	1.00	0.14		m-g		m-g		
GRD009042	235.35	236.15	0.80	3.80		3.04				
GRD009043	236.15	237.15	1.00	0.33		0.328				
GRD009044	237.15	238.15	1.00	0.48		0.477				
GRD009045	238.15	238.75	0.60	9.07		5.442		5.442		
GRD009046	238.75	239.25	0.50	7.63		3.815		3.815		
GRD009047	239.25	240.05	0.80	5.94		4.752		4.752		
GRD009049	240.05	240.75	0.70	25.70		17.99		17.99		
GRD009050	240.75	241.35	0.60	42.90		25.74		25.74		
GRD009051	241.35	242.45	1.10	3.41		3.751		3.751		
GRD009052	242.45	243.35	0.90	4.96		4.464		4.464		
GRD009053	243.35	243.75	0.40	0.48		0.1928				
GRD009054	244.25	245.15	0.90	3.16		2.844				
GRD009055	245.15	246.15	1.00	0.27						
GRD009056	246.15	247.15	1.00	0.04	9.30	72.8358	7.83	5.20	65.954	12.68

9.3 m @ 7.83 g/t ; including 5.2 m @ 12.68 g/t

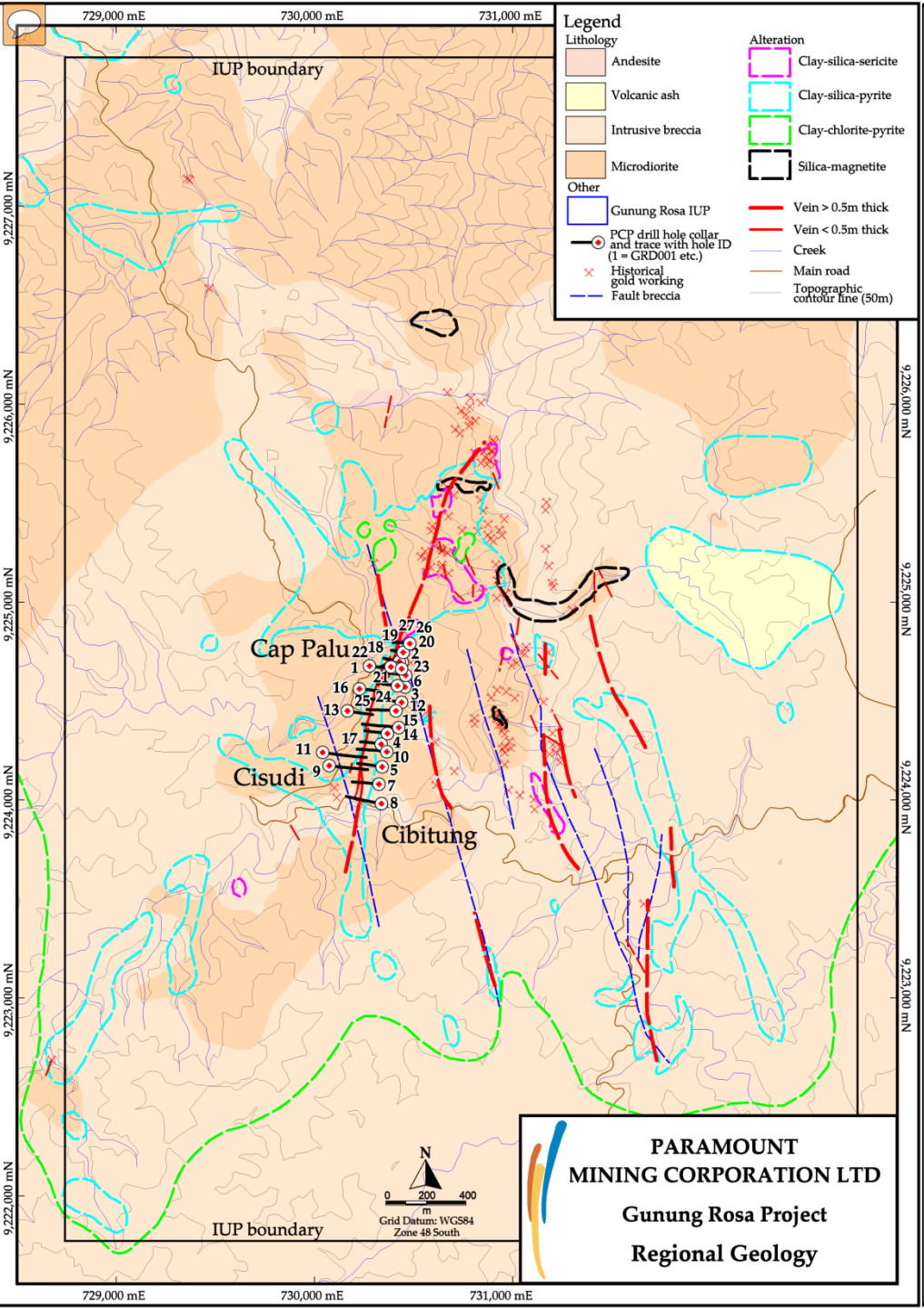
RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

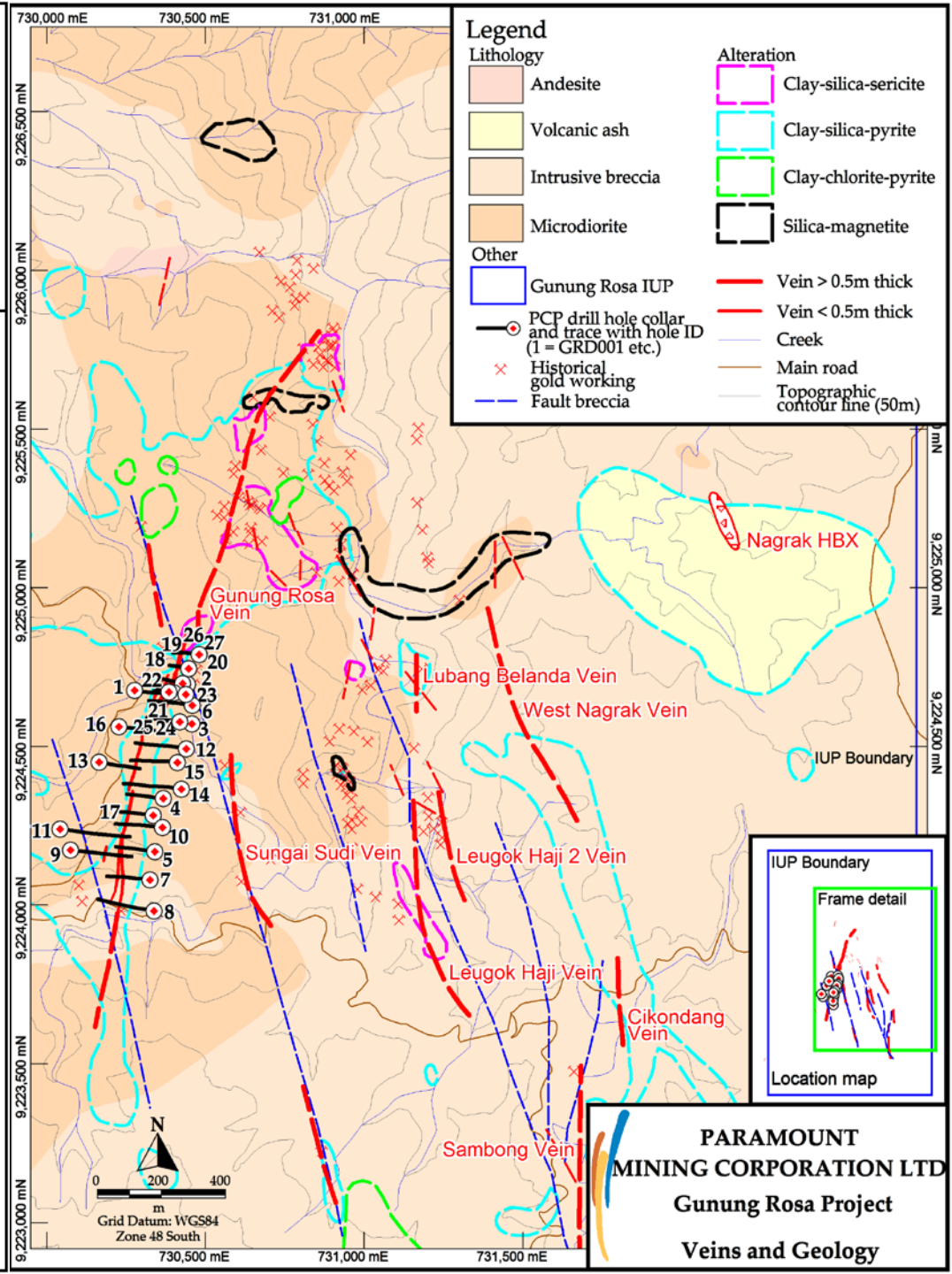
UNSW AUSTRALIA



Inferred Resource estimation at stated cut off grades for areas below 900m RL
(2m minimum vein width, 0.5m mining dilution)

Cut off	Tonnes*	Average Au Grade	Au oz*	Ag oz	Cu tonnes	Pb tonnes	Zn tonnes
No cut off	3,161,080	4.51	458,090	1,137,270	9,250	13,330	45,880
1 g/t	2,793,580	5.01	449,330	1,077,690	8,440	13,180	44,740
1.5 g/t	2,467,240	5.50	435,950	1,045,220	8,230	13,020	43,810
2 g/t	2,165,160	5.89	409,360	975,530	7,830	12,210	40,440
3 g/t	1,978,350	6.24	396,130	877,660	6,710	11,990	40,250


729,000 mE
730,000 mE
731,000 mE
9,227,000 mN
9,226,000 mN
9,225,000 mN
9,224,000 mN
9,223,000 mN
9,222,000 mN
IUP boundary
Legend
Lithology
Andesite
Volcanic ash
Intrusive breccia
Microdiorite
Other
Gunung Rosa IUP
PCP drill hole collar and trace with hole ID (1 = GRD001 etc.)
Historical gold working
Fault breccia
Alteration
Clay-silica-sericite
Clay-silica-pyrite
Clay-chlorite-pyrite
Silica-magnetite
Vein > 0.5m thick
Vein < 0.5m thick
Creek
Main road
Topographic contour line (50m)
Cap Palu
Cisudi
Cibitung
IUP boundary
N
0 200 400
m
Grid Datum: WGS84
Zone 48 South
PARAMOUNT
MINING CORPORATION LTD
Gunung Rosa Project
Regional Geology


730,000 mE
730,500 mE
731,000 mE
731,500 mE
9,226,500 mN
9,226,000 mN
9,225,500 mN
9,225,000 mN
9,224,500 mN
9,224,000 mN
9,223,500 mN
9,223,000 mN
Legend
Lithology
Andesite
Volcanic ash
Intrusive breccia
Microdiorite
Other
Gunung Rosa IUP
PCP drill hole collar and trace with hole ID (1 = GRD001 etc.)
Historical gold working
Fault breccia
Alteration
Clay-silica-sericite
Clay-silica-pyrite
Clay-chlorite-pyrite
Silica-magnetite
Vein > 0.5m thick
Vein < 0.5m thick
Creek
Main road
Topographic contour line (50m)
Nagrak HBX
Gunung Rosa Vein
Lubang Belanda Vein
West Nagrak Vein
IUP Boundary
Sungai Sudi Vein
Leugok Haji 2 Vein
Leugok Haji Vein
Cikondang Vein
Sambong Vein
IUP Boundary
Frame detail
Location map
N
0 200 400
m
Grid Datum: WGS84
Zone 48 South
PARAMOUNT
MINING CORPORATION LTD
Gunung Rosa Project
Veins and Geology

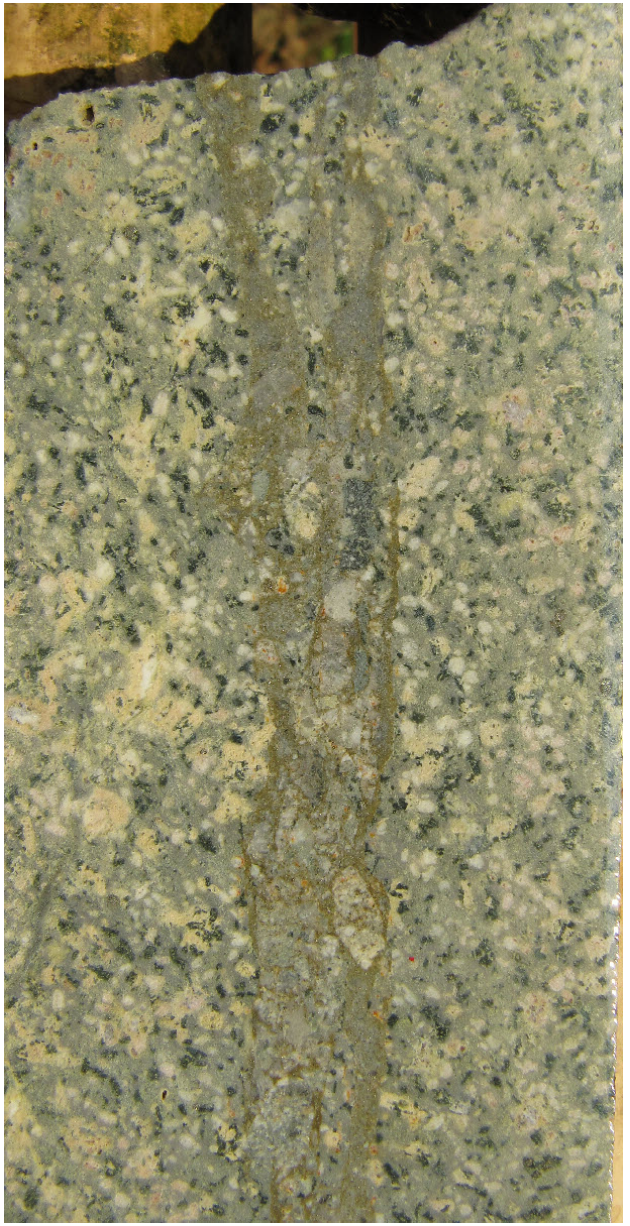
Field mapping revealed a range of intrusive and breccia events with various of alteration relationships and styles suggesting quite a different history than had been interpreted historically.

Milled breccia dykes, advanced argillic & silica pyrite alteration

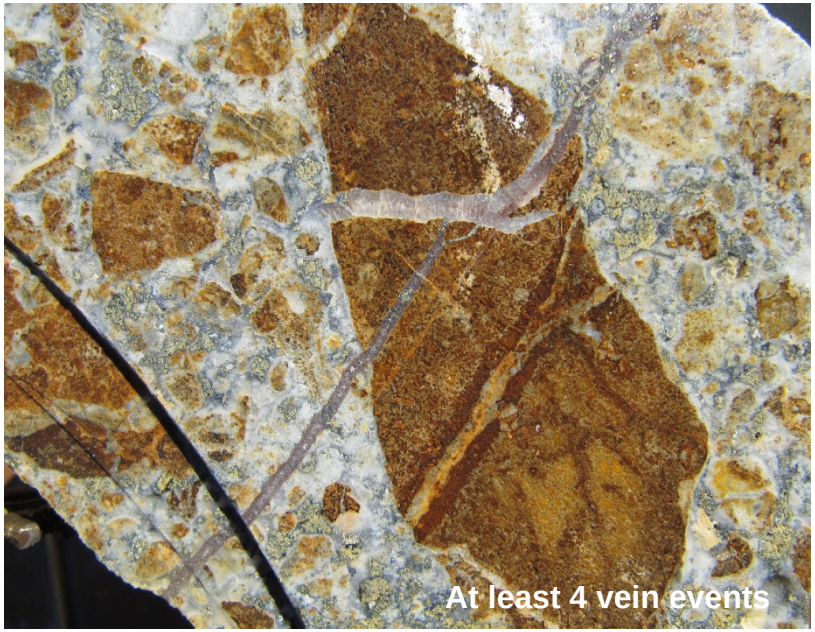
RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

UNSW
AUSTRALIA

Milled polymictic and hydrothermal breccias, mesothermal veins



Pebble breccia dykes in weakly to strongly altered intrusive.



Northern end of vein system – Cap Palu. Typically broader sections lower grade.

Southern end vein system. Chalcedonic silica fill, coarser sulphides. Far north vein breccia.

Sulphide veins & breccia

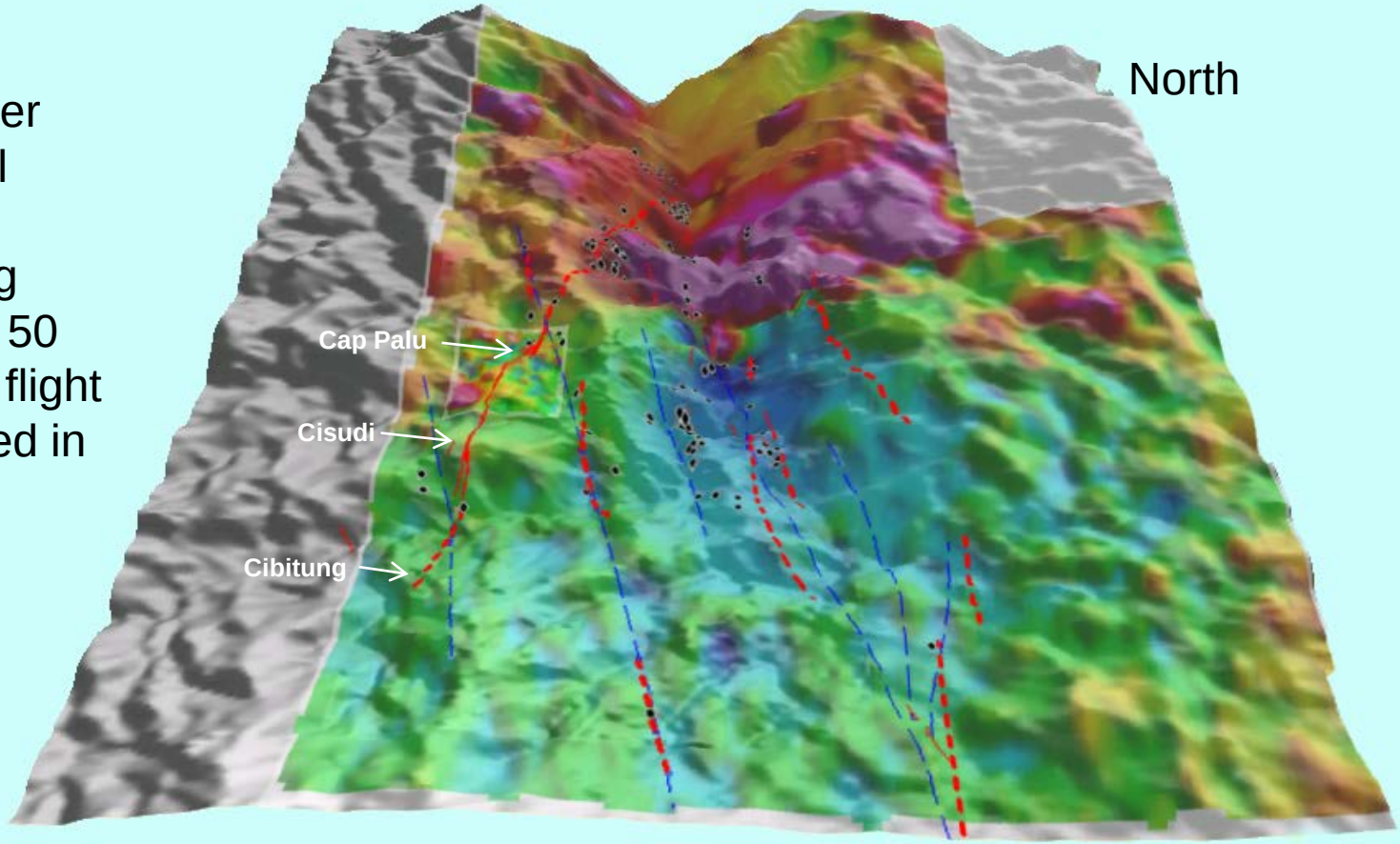
Two sphalerite colours

RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

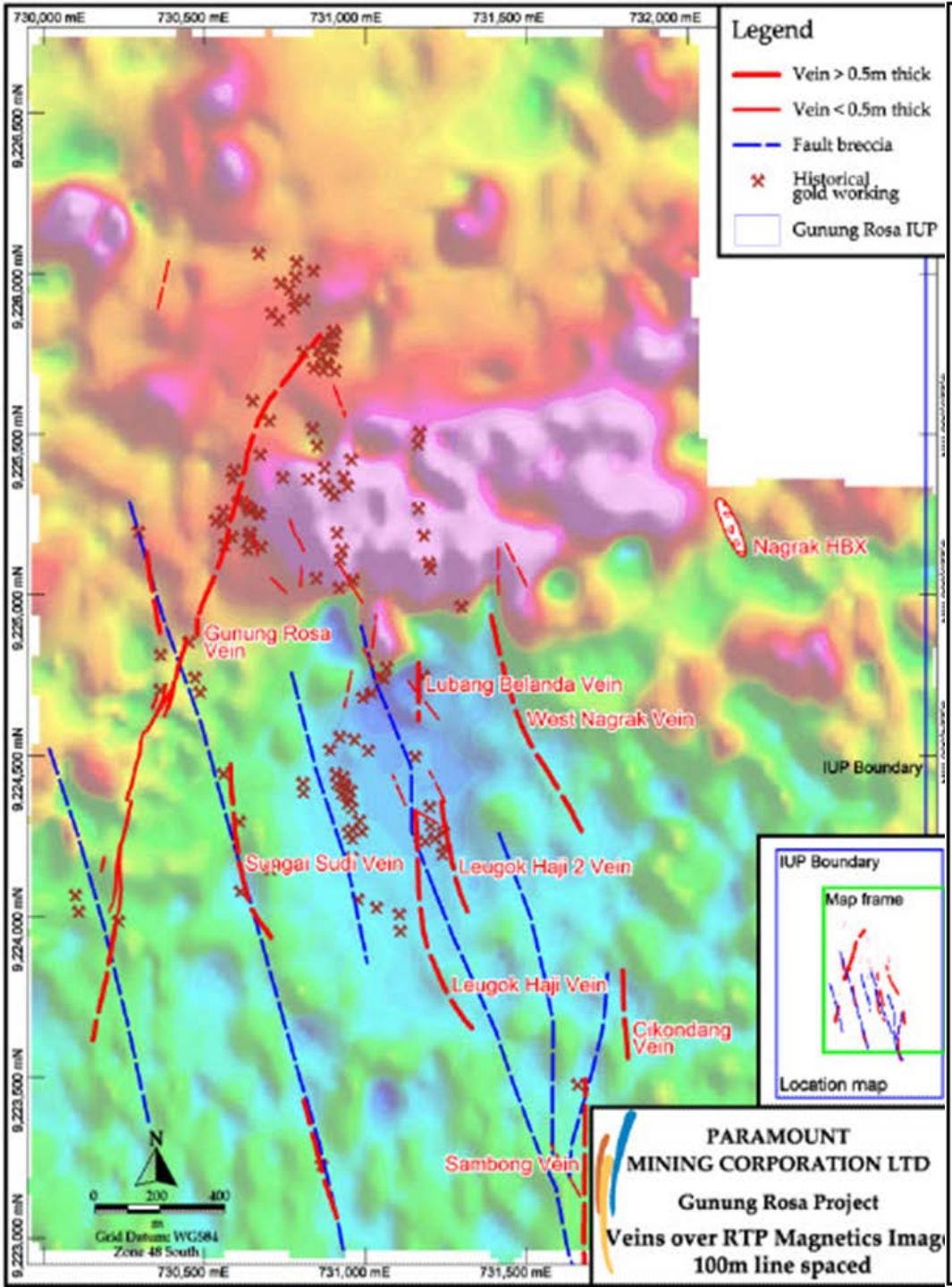
UNSW
AUSTRALIA

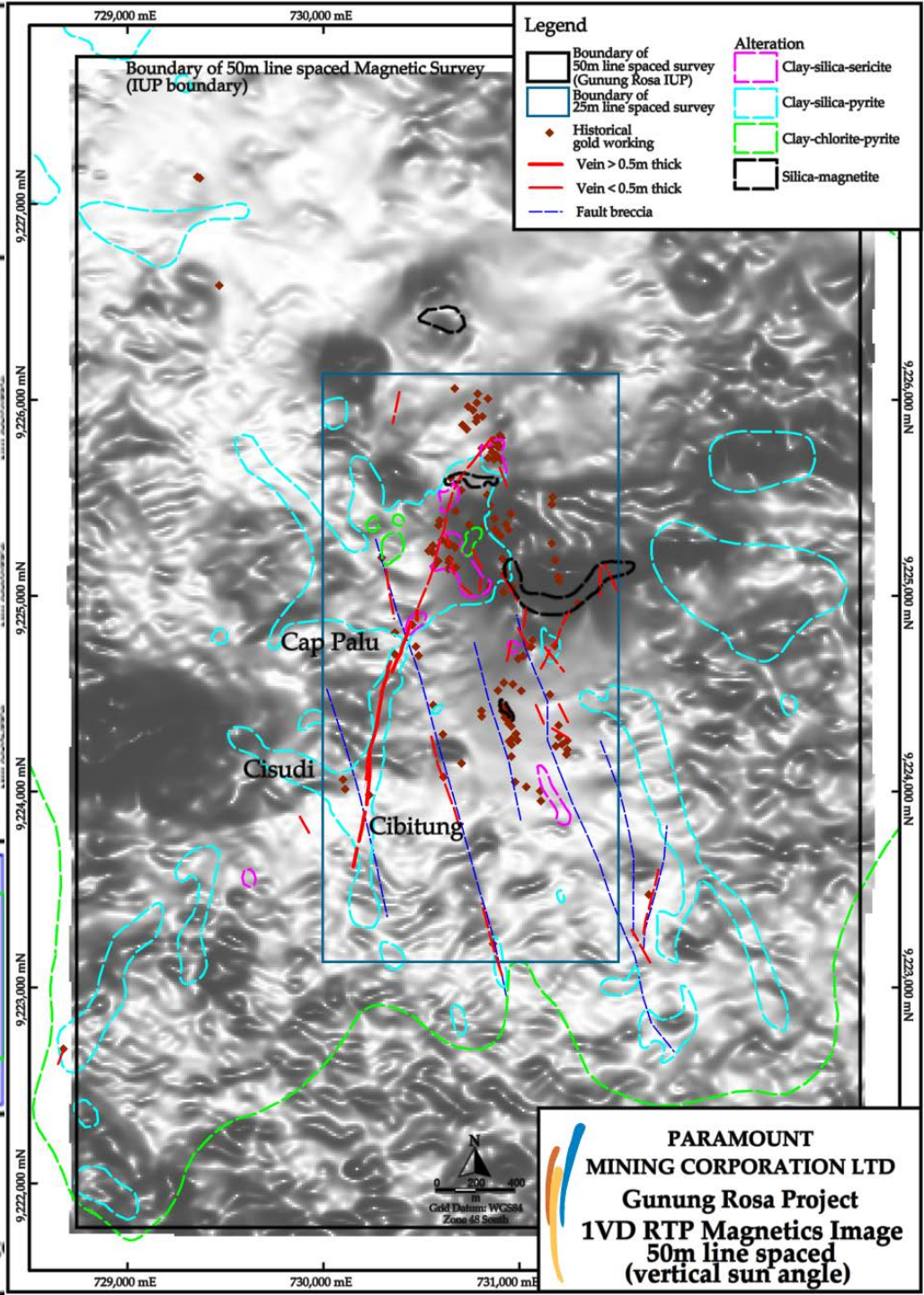
RTP TMI magnetics over 3D digital terrain model

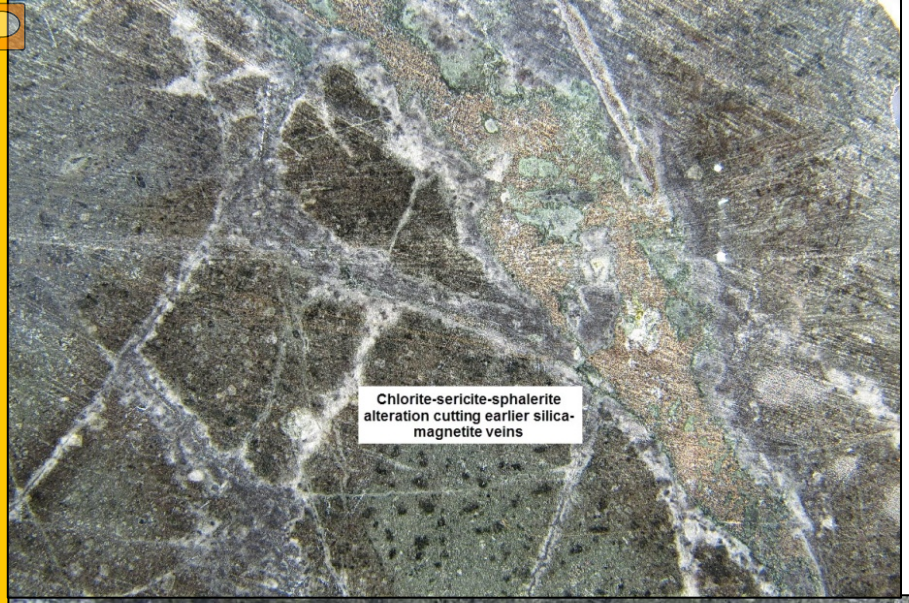
Survey was flown along north south lines using 50 and 100 metre spaced flight lines and was completed in under 2 days.

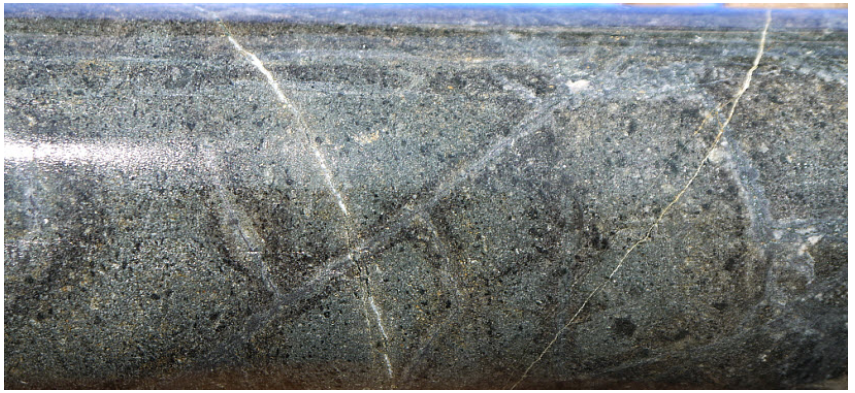


RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

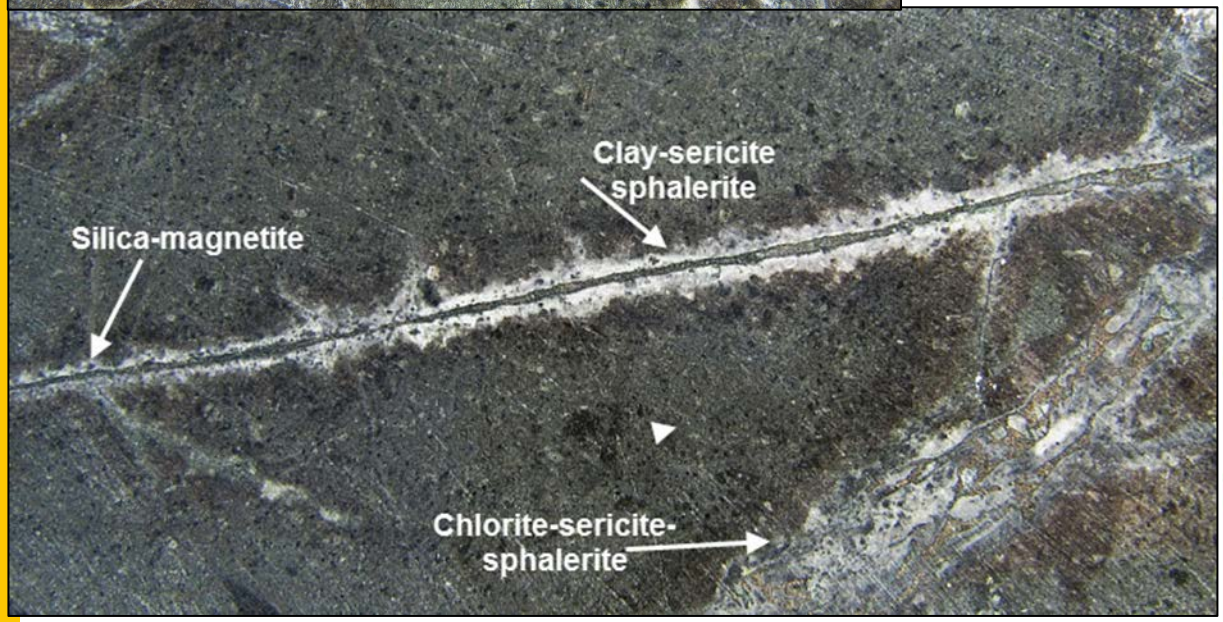

730,000 mE
730,500 mE
731,000 mE
731,500 mE
732,000 mE
9,226,500 mN
9,226,000 mN
9,225,500 mN
9,225,000 mN
9,224,500 mN
9,224,000 mN
9,223,500 mN
9,223,000 mN
Legend
Vein > 0.5m thick
Vein < 0.5m thick
Fault breccia
Historical gold working
Gunung Rosa IUP
Nagrak HBX
Gunung Rosa Vein
Lubang Belanda Vein
West Nagrak Vein
IUP Boundary
Sungai Sudi Vein
Leugok Haji 2 Vein
Leugok Haji Vein
Cikondang Vein
Sambong Vein
IUP Boundary
Map frame
Location map
N
0 200 400
m
Grid Datum: WGS84
Zone 48 South
PARAMOUNT
MINING CORPORATION LTD
Gunung Rosa Project
Veins over RTP Magnetics Imag
100m line spaced

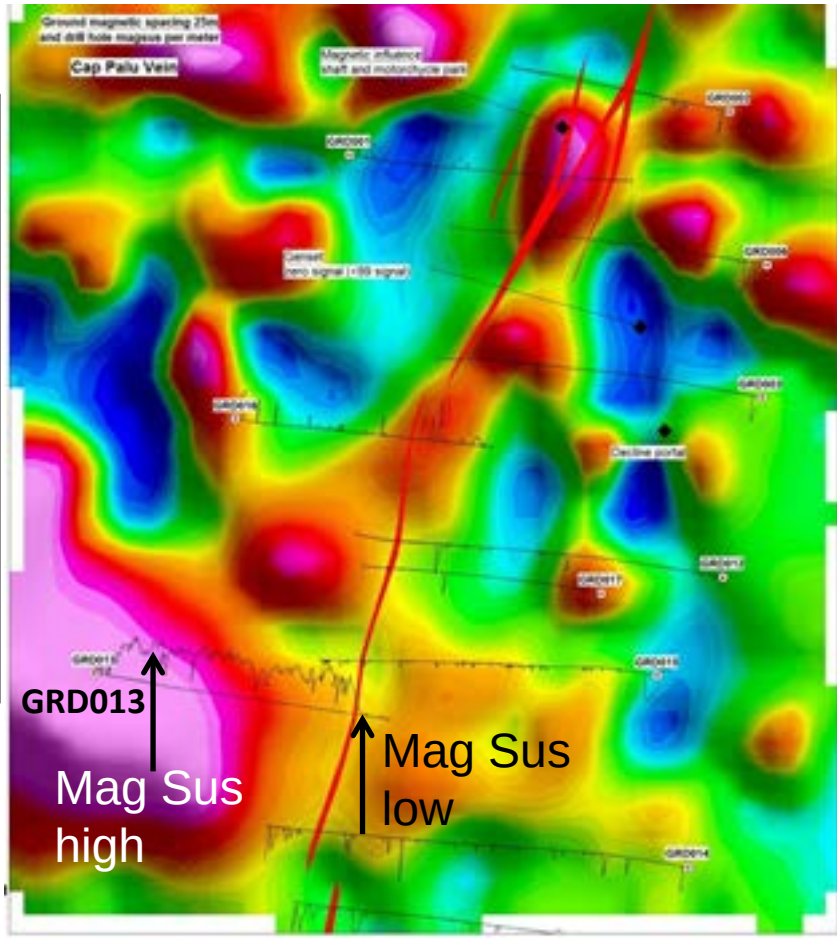

729,000 mE
730,000 mE
731,000 mE
9,227,000 mN
9,226,000 mN
9,225,000 mN
9,224,000 mN
9,223,000 mN
9,222,000 mN
Boundary of 50m line spaced Magnetic Survey
(IUP boundary)
Legend
Boundary of 50m line spaced survey (Gunung Rosa IUP)
Boundary of 25m line spaced survey
Historical gold working
Vein > 0.5m thick
Vein < 0.5m thick
Fault breccia
Alteration
Clay-silica-sericite
Clay-silica-pyrite
Clay-chlorite-pyrite
Silica-magnetite
Cap Palu
Cisudi
Cibitung
N
0 200 400
m
Grid Datum: WGS84
Zone 48 South
PARAMOUNT
MINING CORPORATION LTD
Gunung Rosa Project
1VD RTP Magnetics Image
50m line spaced
(vertical sun angle)





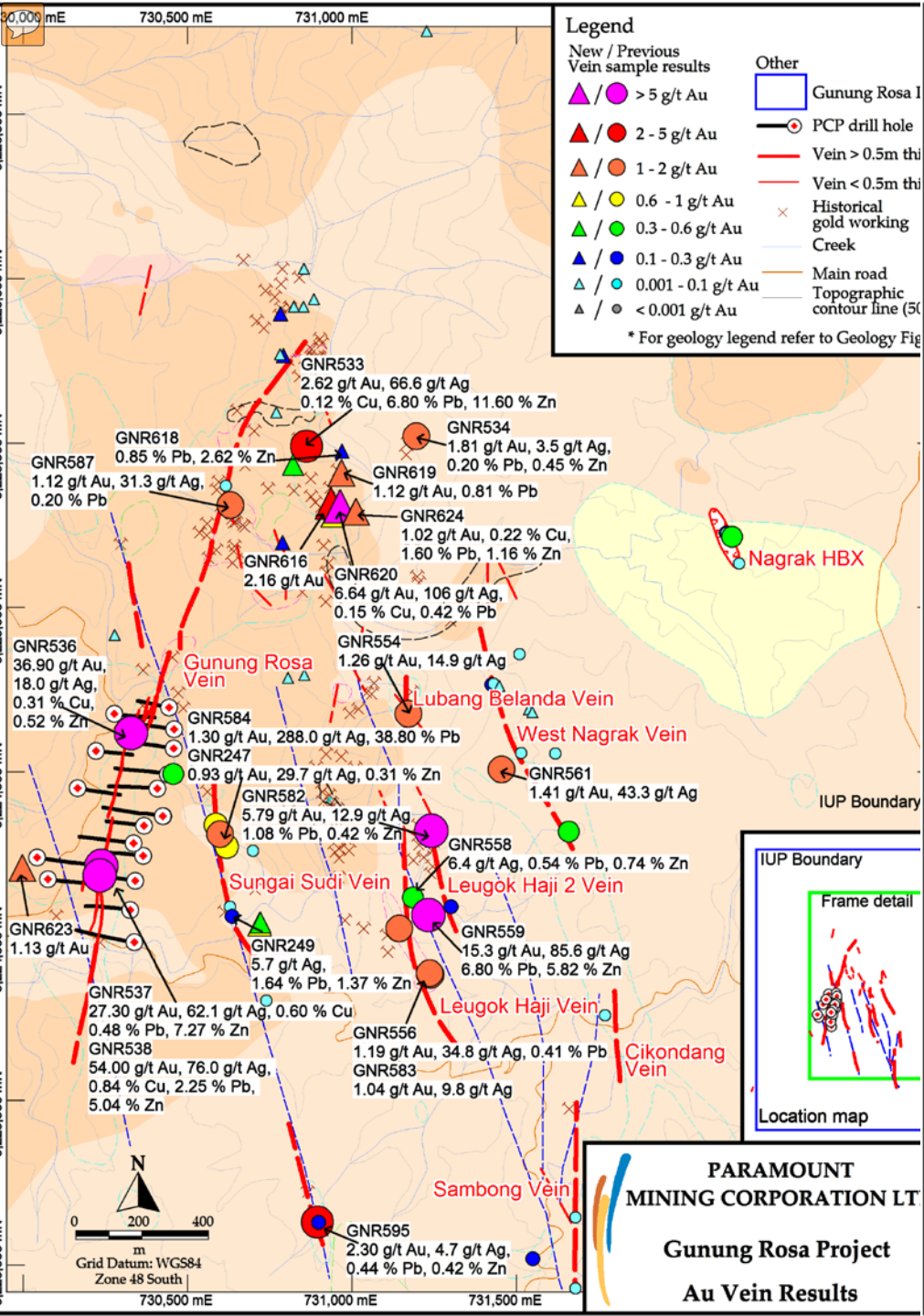
Silica-magnetite stock work veins in microdiorite with dark biotite in selvedge along vein margins Hole GRD013

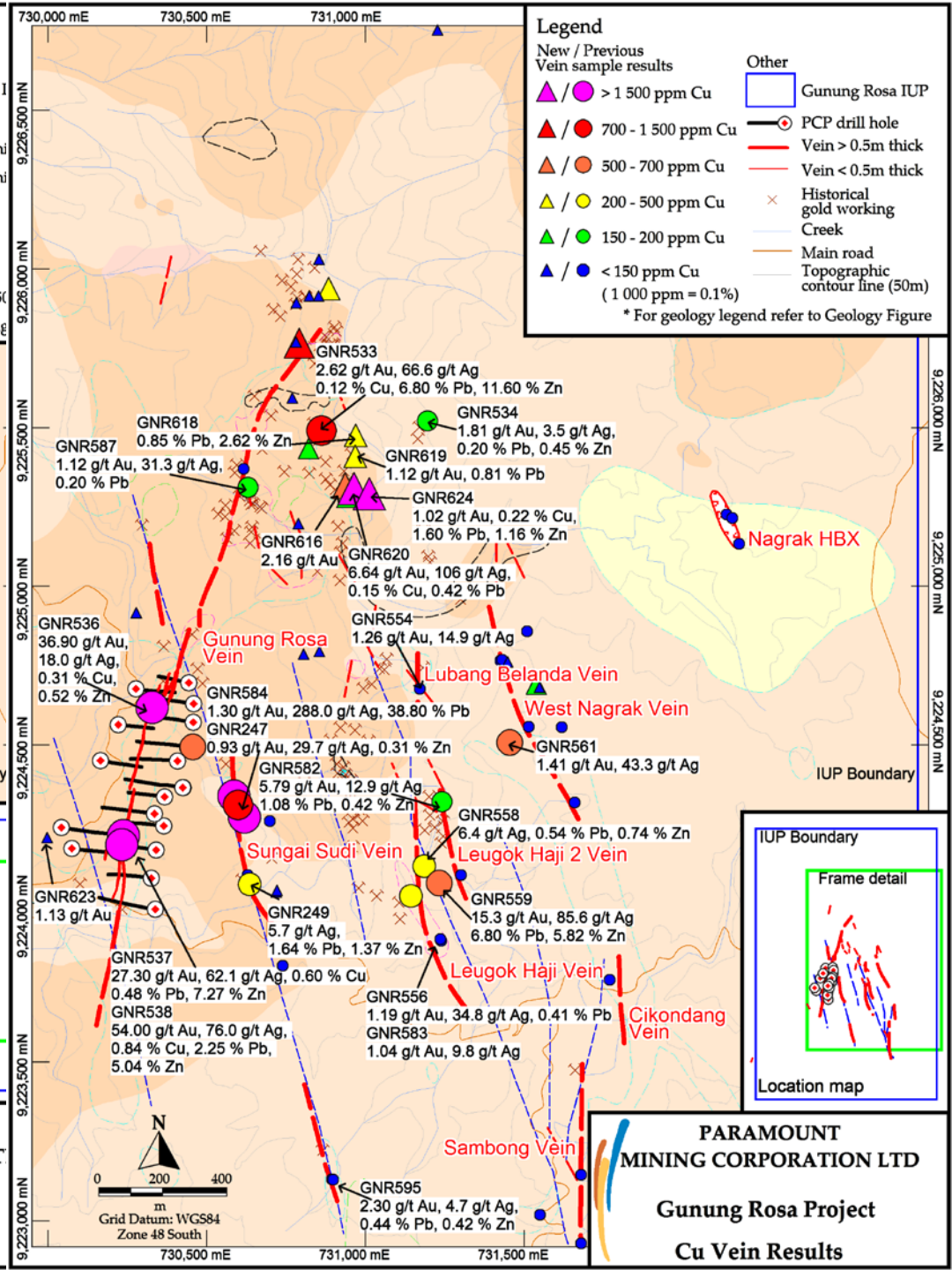


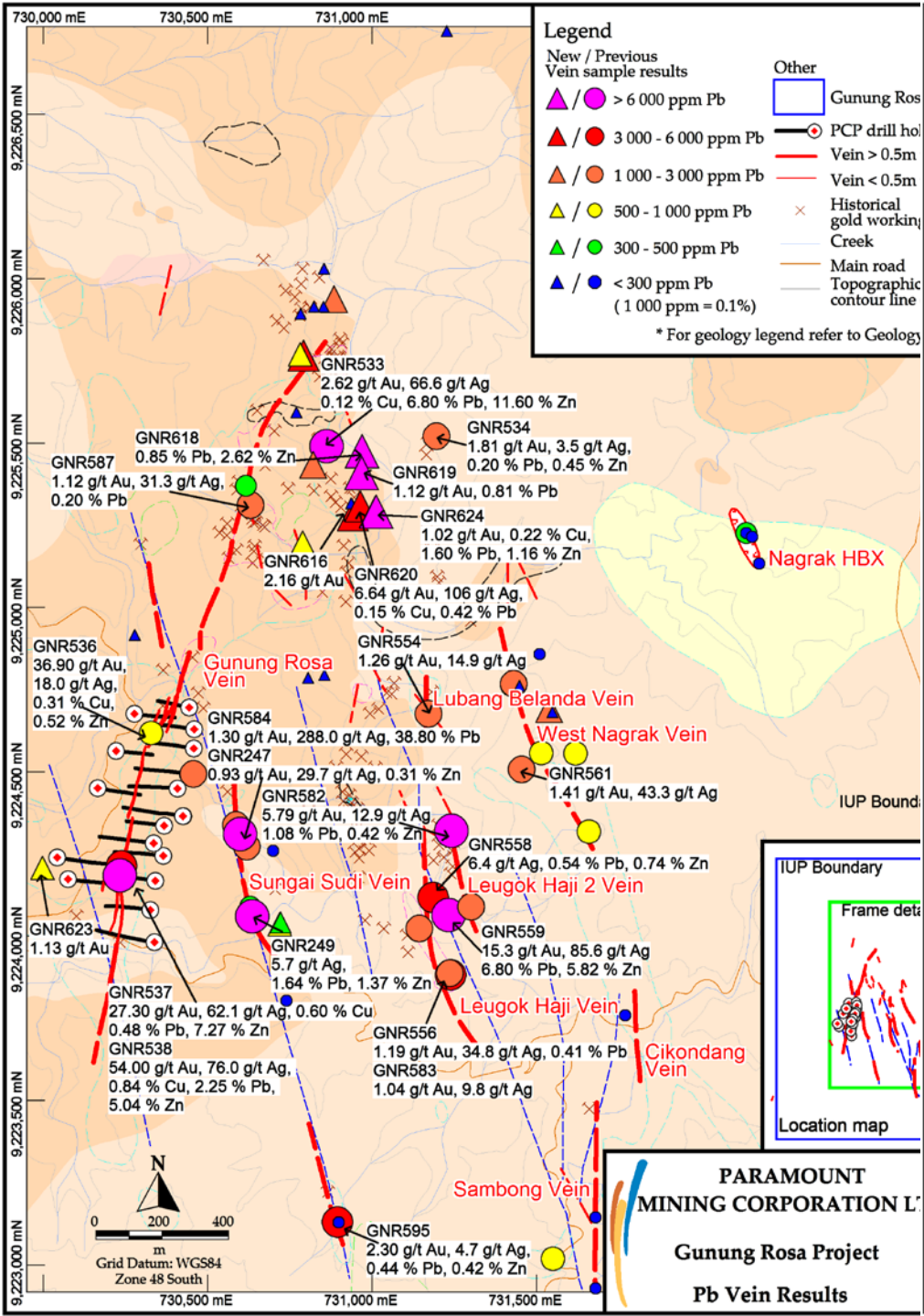


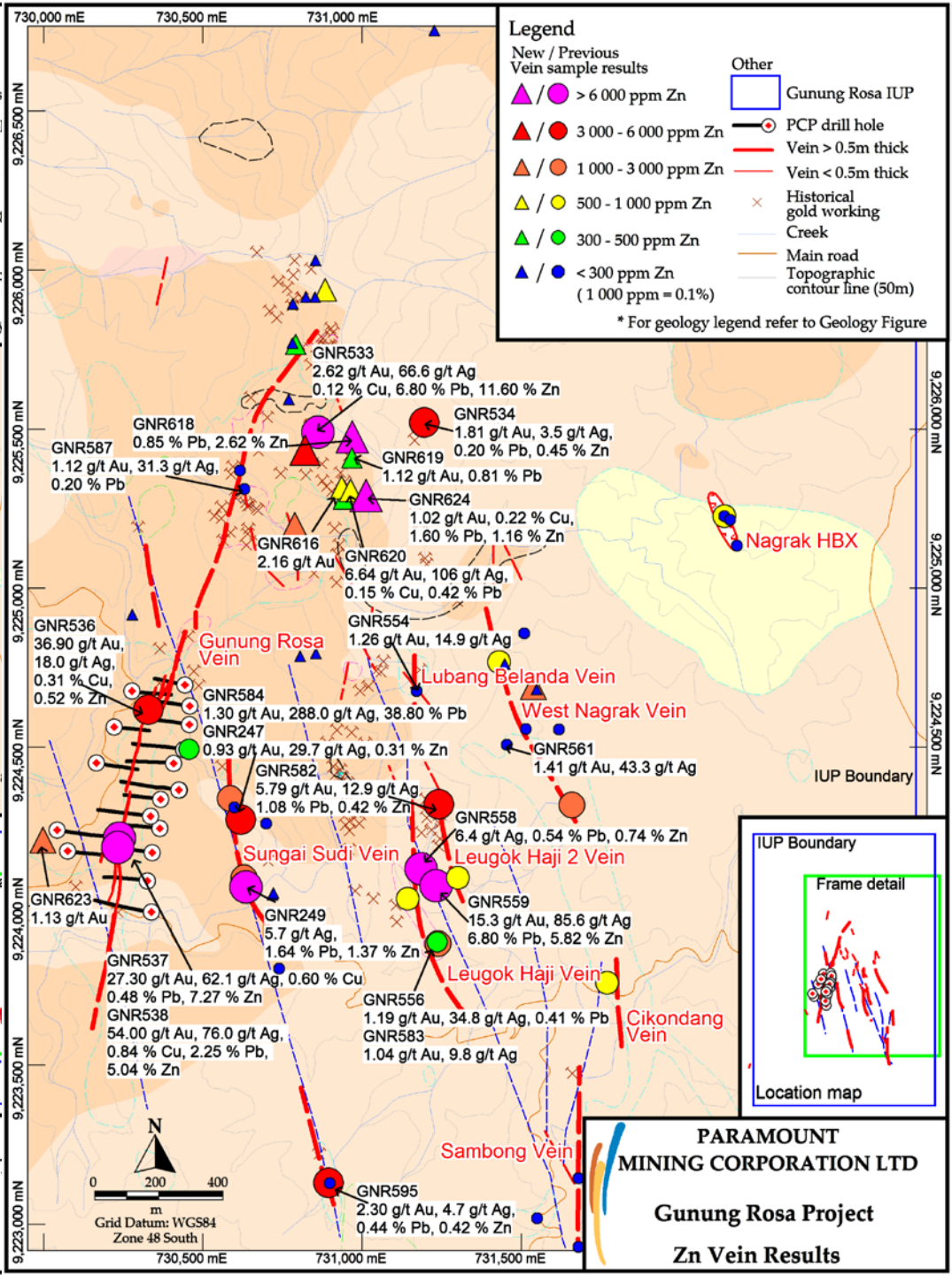
Magnetite destruction related to vein and wall rock alteration can be delineated by detailed ground magnetics.

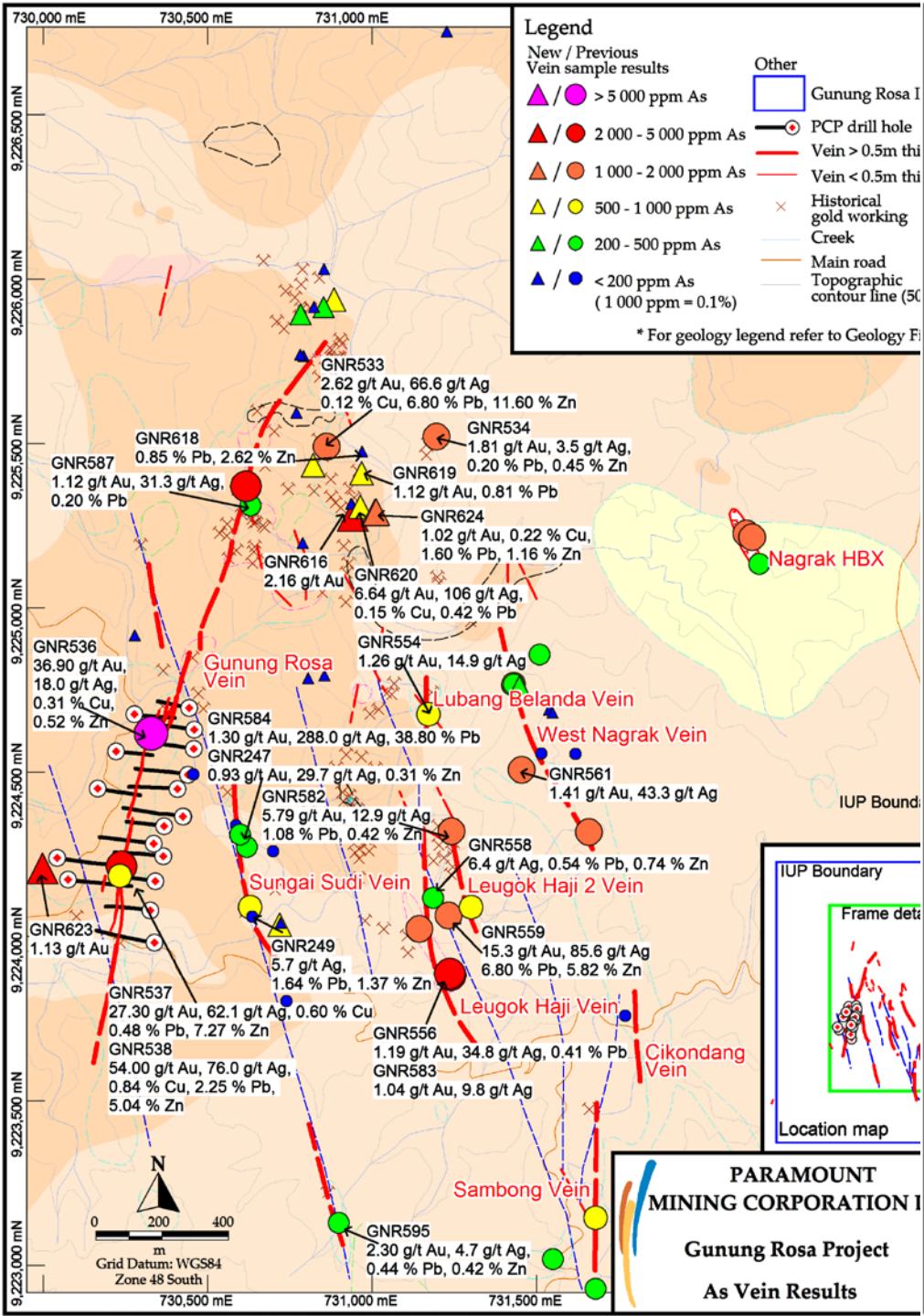
RUTHERFORD
MINERAL RESOURCE CONSULTANTS
ABN: 60 396 553 906

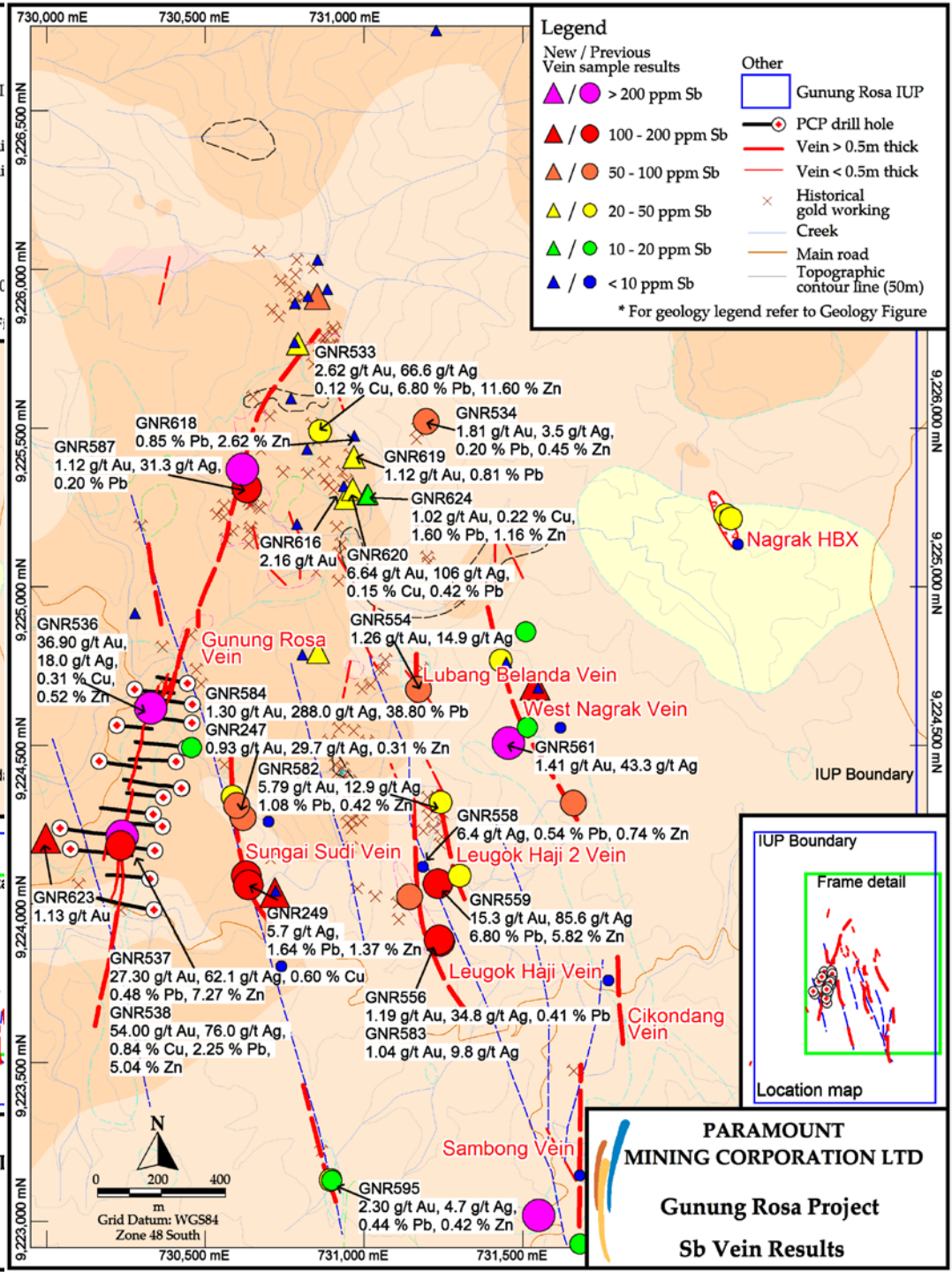

730,000 mE
730,500 mE
731,000 mE
731,500 mE
Legend
New / Previous
Vein sample results
> 5 g/t Au
2 - 5 g/t Au
1 - 2 g/t Au
0.6 - 1 g/t Au
0.3 - 0.6 g/t Au
0.1 - 0.3 g/t Au
0.001 - 0.1 g/t Au
< 0.001 g/t Au
Other
Gunung Rosa I
PCP drill hole
Vein > 0.5m thi
Vein < 0.5m thi
Historical gold working
Creek
Main road
Topographic contour line (5
* For geology legend refer to Geology Fig
GNR533
2.62 g/t Au, 66.6 g/t Ag
0.12 % Cu, 6.80 % Pb, 11.60 % Zn
GNR534
1.81 g/t Au, 3.5 g/t Ag,
0.20 % Pb, 0.45 % Zn
GNR618
0.85 % Pb, 2.62 % Zn
GNR587
1.12 g/t Au, 31.3 g/t Ag,
0.20 % Pb
GNR619
1.12 g/t Au, 0.81 % Pb
GNR624
1.02 g/t Au, 0.22 % Cu,
1.60 % Pb, 1.16 % Zn
GNR616
2.16 g/t Au
GNR620
6.64 g/t Au, 106 g/t Ag,
0.15 % Cu, 0.42 % Pb
Nagrak HBX
GNR554
1.26 g/t Au, 14.9 g/t Ag
GNR536
36.90 g/t Au,
18.0 g/t Ag,
0.31 % Cu,
0.52 % Zn
Gunung Rosa Vein
Lubang Belanda Vein
GNR584
1.30 g/t Au, 288.0 g/t Ag, 38.80 % Pb
West Nagrak Vein
GNR247
0.93 g/t Au, 29.7 g/t Ag, 0.31 % Zn
GNR561
1.41 g/t Au, 43.3 g/t Ag
GNR582
5.79 g/t Au, 12.9 g/t Ag
1.08 % Pb, 0.42 % Zn
IUP Boundary
GNR558
6.4 g/t Ag, 0.54 % Pb, 0.74 % Zn
Sungai Sudi Vein
Leugok Haji 2 Vein
GNR623
1.13 g/t Au
GNR559
15.3 g/t Au, 85.6 g/t Ag
6.80 % Pb, 5.82 % Zn
GNR249
5.7 g/t Ag,
1.64 % Pb, 1.37 % Zn
GNR537
27.30 g/t Au, 62.1 g/t Ag, 0.60 % Cu
0.48 % Pb, 7.27 % Zn
Leugok Haji Vein
GNR538
54.00 g/t Au, 76.0 g/t Ag,
0.84 % Cu, 2.25 % Pb,
5.04 % Zn
GNR556
1.19 g/t Au, 34.8 g/t Ag, 0.41 % Pb
GNR583
1.04 g/t Au, 9.8 g/t Ag
Cikondang Vein
IUP Boundary
Frame detail
Location map
N
0
200
400
m
Grid Datum: WGS84
Zone 48 South
Sambong Vein
GNR595
2.30 g/t Au, 4.7 g/t Ag,
0.44 % Pb, 0.42 % Zn
PARAMOUNT
MINING CORPORATION LT
Gunung Rosa Project
Au Vein Results

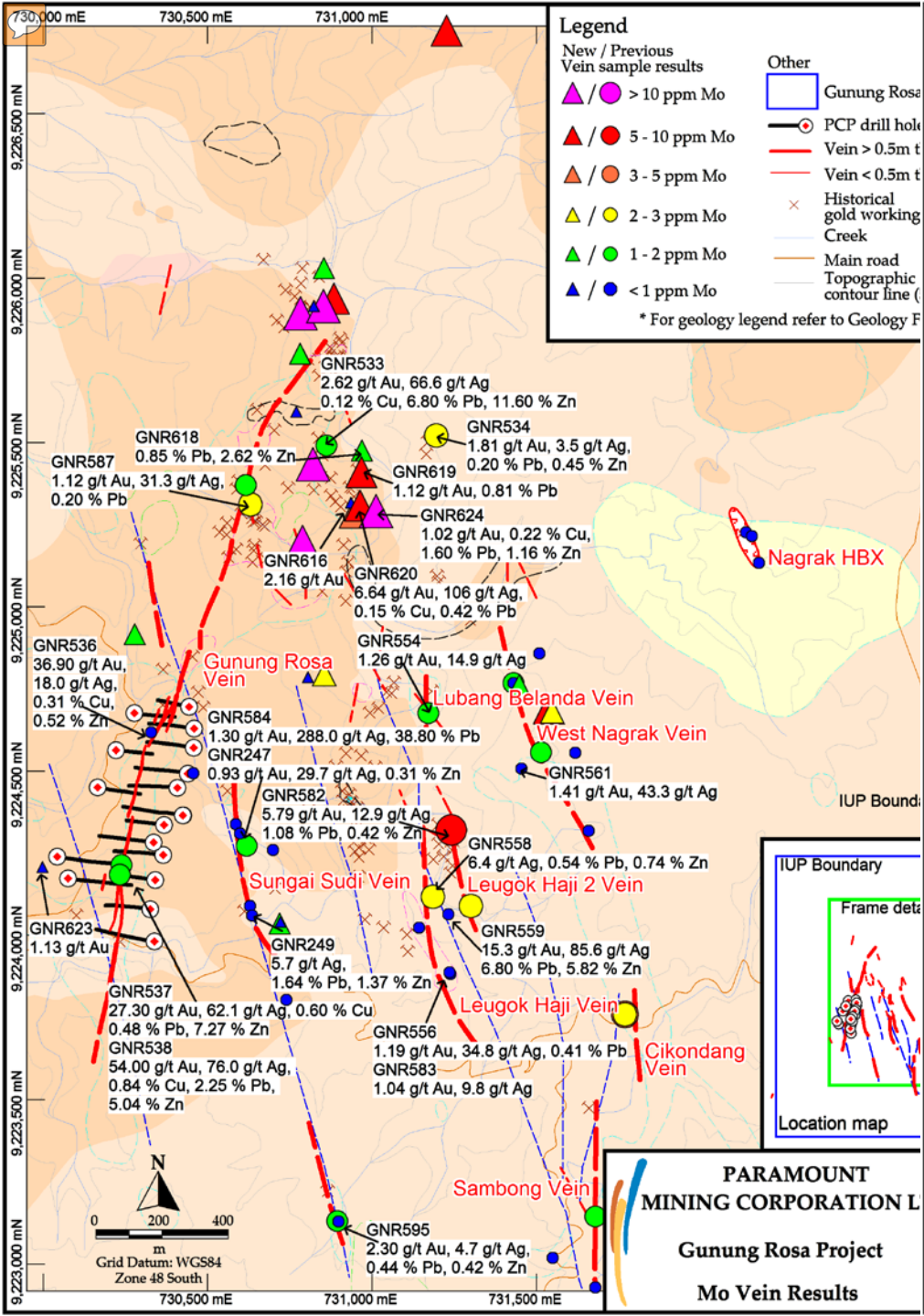

730,000 mE
730,500 mE
731,000 mE
731,500 mE
9,226,500 mN
9,226,000 mN
9,225,500 mN
9,225,000 mN
9,224,500 mN
9,224,000 mN
9,223,500 mN
9,223,000 mN
Legend
New / Previous
Vein sample results
> 1 500 ppm Cu
700 - 1 500 ppm Cu
500 - 700 ppm Cu
200 - 500 ppm Cu
150 - 200 ppm Cu
< 150 ppm Cu
(1 000 ppm = 0.1%)
Other
Gunung Rosa IUP
PCP drill hole
Vein > 0.5m thick
Vein < 0.5m thick
Historical gold working
Creek
Main road
Topographic contour line (50m)
* For geology legend refer to Geology Figure
GNR533
2.62 g/t Au, 66.6 g/t Ag
0.12 % Cu, 6.80 % Pb, 11.60 % Zn
GNR534
1.81 g/t Au, 3.5 g/t Ag,
0.20 % Pb, 0.45 % Zn
GNR618
0.85 % Pb, 2.62 % Zn
GNR587
1.12 g/t Au, 31.3 g/t Ag,
0.20 % Pb
GNR619
1.12 g/t Au, 0.81 % Pb
GNR624
1.02 g/t Au, 0.22 % Cu,
1.60 % Pb, 1.16 % Zn
GNR616
2.16 g/t Au
GNR620
6.64 g/t Au, 106 g/t Ag,
0.15 % Cu, 0.42 % Pb
Nagrak HBX
GNR554
1.26 g/t Au, 14.9 g/t Ag
GNR536
36.90 g/t Au,
18.0 g/t Ag,
0.31 % Cu,
0.52 % Zn
Gunung Rosa Vein
Lubang Belanda Vein
GNR584
1.30 g/t Au, 288.0 g/t Ag, 38.80 % Pb
West Nagrak Vein
GNR247
0.93 g/t Au, 29.7 g/t Ag, 0.31 % Zn
GNR561
1.41 g/t Au, 43.3 g/t Ag
GNR582
5.79 g/t Au, 12.9 g/t Ag
1.08 % Pb, 0.42 % Zn
IUP Boundary
GNR558
6.4 g/t Ag, 0.54 % Pb, 0.74 % Zn
Sungai Sudi Vein
Leugok Haji 2 Vein
GNR623
1.13 g/t Au
GNR559
15.3 g/t Au, 85.6 g/t Ag
6.80 % Pb, 5.82 % Zn
GNR249
5.7 g/t Ag,
1.64 % Pb, 1.37 % Zn
GNR537
27.30 g/t Au, 62.1 g/t Ag, 0.60 % Cu
0.48 % Pb, 7.27 % Zn
Leugok Haji Vein
GNR538
54.00 g/t Au, 76.0 g/t Ag,
0.84 % Cu, 2.25 % Pb,
5.04 % Zn
GNR556
1.19 g/t Au, 34.8 g/t Ag, 0.41 % Pb
GNR583
1.04 g/t Au, 9.8 g/t Ag
Cikondang Vein
IUP Boundary
Frame detail
Location map
N
0
200
400
m
Grid Datum: WGS84
Zone 48 South
Sambong Vein
GNR595
2.30 g/t Au, 4.7 g/t Ag,
0.44 % Pb, 0.42 % Zn
PARAMOUNT
MINING CORPORATION LTD
Gunung Rosa Project
Cu Vein Results

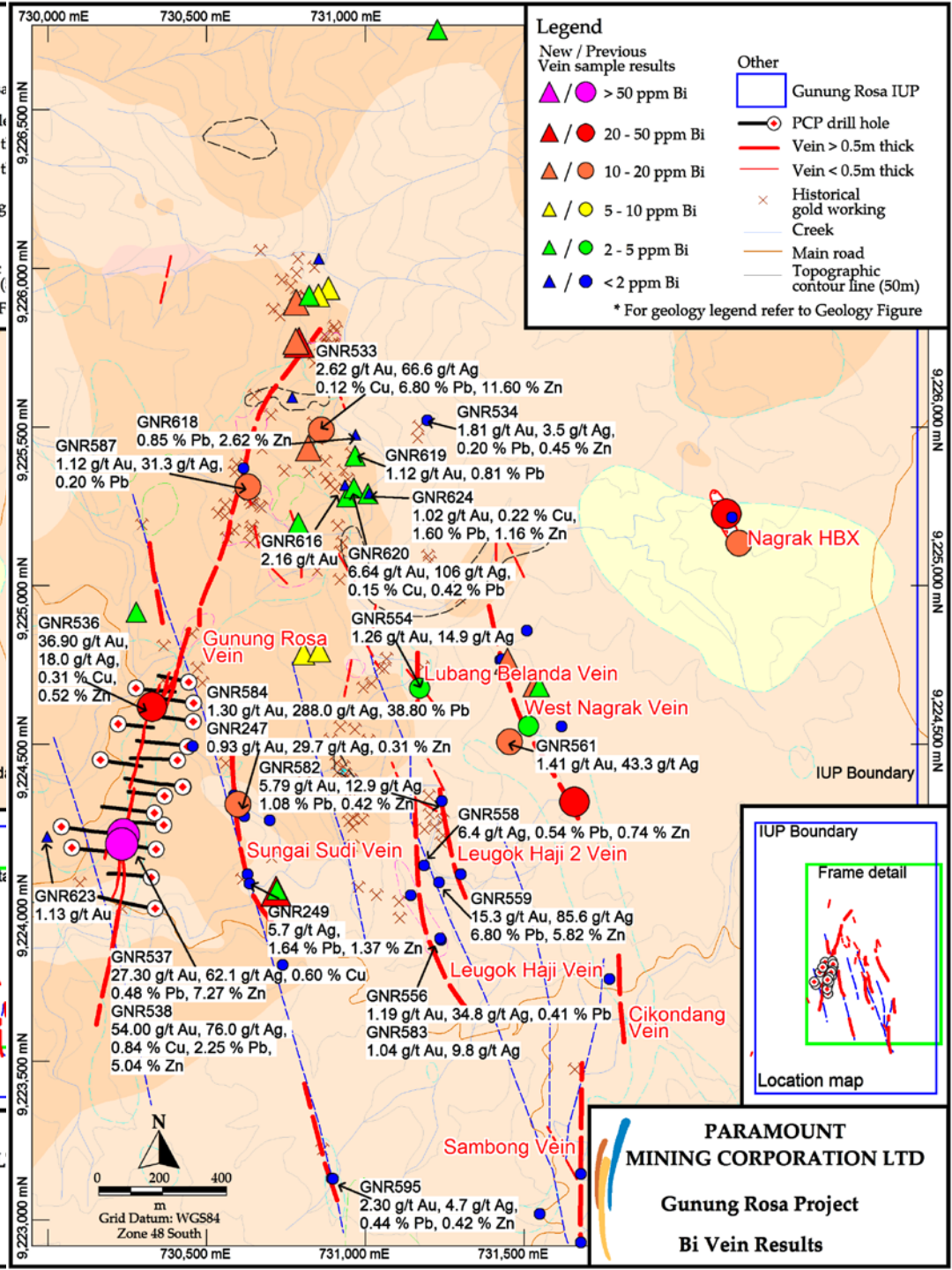

730,000 mE
730,500 mE
731,000 mE
731,500 mE
9,226,500 mN
9,226,000 mN
9,225,500 mN
9,225,000 mN
9,224,500 mN
9,224,000 mN
9,223,500 mN
9,223,000 mN
Legend
New / Previous
Vein sample results
> 6 000 ppm Pb
3 000 - 6 000 ppm Pb
1 000 - 3 000 ppm Pb
500 - 1 000 ppm Pb
300 - 500 ppm Pb
< 300 ppm Pb
(1 000 ppm = 0.1%)
Other
Gunung Ros
PCP drill hol
Vein > 0.5m
Vein < 0.5m
Historical gold workin
Creek
Main road
Topographic contour line
* For geology legend refer to Geology
GNR533
2.62 g/t Au, 66.6 g/t Ag
0.12 % Cu, 6.80 % Pb, 11.60 % Zn
GNR618
0.85 % Pb, 2.62 % Zn
GNR534
1.81 g/t Au, 3.5 g/t Ag,
0.20 % Pb, 0.45 % Zn
GNR587
1.12 g/t Au, 31.3 g/t Ag,
0.20 % Pb
GNR619
1.12 g/t Au, 0.81 % Pb
GNR624
1.02 g/t Au, 0.22 % Cu,
1.60 % Pb, 1.16 % Zn
GNR616
2.16 g/t Au
GNR620
6.64 g/t Au, 106 g/t Ag,
0.15 % Cu, 0.42 % Pb
Nagrak HBX
GNR554
1.26 g/t Au, 14.9 g/t Ag
GNR536
36.90 g/t Au,
18.0 g/t Ag,
0.31 % Cu,
0.52 % Zn
Gunung Rosa Vein
Lubang Belanda Vein
GNR584
1.30 g/t Au, 288.0 g/t Ag, 38.80 % Pb
West Nagrak Vein
GNR247
0.93 g/t Au, 29.7 g/t Ag, 0.31 % Zn
GNR561
1.41 g/t Au, 43.3 g/t Ag
GNR582
5.79 g/t Au, 12.9 g/t Ag,
1.08 % Pb, 0.42 % Zn
GNR558
6.4 g/t Ag, 0.54 % Pb, 0.74 % Zn
Sungai Sudi Vein
Leugok Haji 2 Vein
GNR623
1.13 g/t Au
GNR559
15.3 g/t Au, 85.6 g/t Ag
6.80 % Pb, 5.82 % Zn
GNR249
5.7 g/t Ag,
1.64 % Pb, 1.37 % Zn
GNR537
27.30 g/t Au, 62.1 g/t Ag, 0.60 % Cu
0.48 % Pb, 7.27 % Zn
Leugok Haji Vein
GNR538
54.00 g/t Au, 76.0 g/t Ag,
0.84 % Cu, 2.25 % Pb,
5.04 % Zn
GNR556
1.19 g/t Au, 34.8 g/t Ag, 0.41 % Pb
GNR583
1.04 g/t Au, 9.8 g/t Ag
Cikondang Vein
Sambong Vein
GNR595
2.30 g/t Au, 4.7 g/t Ag,
0.44 % Pb, 0.42 % Zn
IUP Boundary
Frame detail
Location map
N
0
200
400
m
Grid Datum: WGS84
Zone 48 South
PARAMOUNT
MINING CORPORATION LTD
Gunung Rosa Project
Pb Vein Results

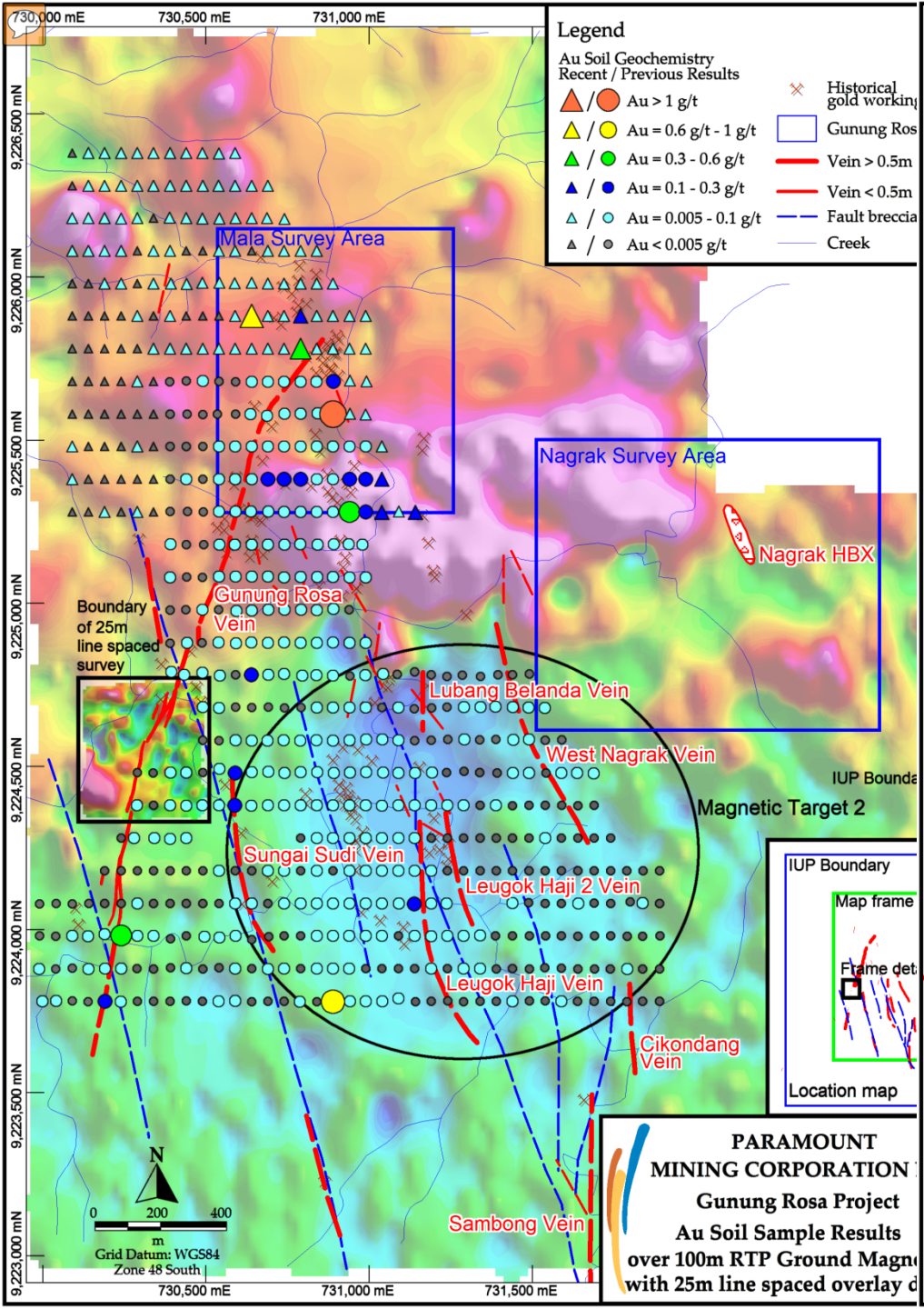

730,000 mE
730,500 mE
731,000 mE
731,500 mE
9,226,500 mN
9,226,000 mN
9,225,500 mN
9,225,000 mN
9,224,500 mN
9,224,000 mN
9,223,500 mN
9,223,000 mN
Legend
New / Previous
Vein sample results
> 6 000 ppm Zn
3 000 - 6 000 ppm Zn
1 000 - 3 000 ppm Zn
500 - 1 000 ppm Zn
300 - 500 ppm Zn
< 300 ppm Zn
(1 000 ppm = 0.1%)
Other
Gunung Rosa IUP
PCP drill hole
Vein > 0.5m thick
Vein < 0.5m thick
Historical gold working
Creek
Main road
Topographic contour line (50m)
* For geology legend refer to Geology Figure
GNR533
2.62 g/t Au, 66.6 g/t Ag
0.12 % Cu, 6.80 % Pb, 11.60 % Zn
GNR618
0.85 % Pb, 2.62 % Zn
GNR534
1.81 g/t Au, 3.5 g/t Ag,
0.20 % Pb, 0.45 % Zn
GNR587
1.12 g/t Au, 31.3 g/t Ag,
0.20 % Pb
GNR619
1.12 g/t Au, 0.81 % Pb
GNR624
1.02 g/t Au, 0.22 % Cu,
1.60 % Pb, 1.16 % Zn
GNR616
2.16 g/t Au
GNR620
6.64 g/t Au, 106 g/t Ag,
0.15 % Cu, 0.42 % Pb
Nagrak HBX
GNR554
1.26 g/t Au, 14.9 g/t Ag
GNR536
36.90 g/t Au,
18.0 g/t Ag,
0.31 % Cu,
0.52 % Zn
Gunung Rosa Vein
Lubang Belanda Vein
GNR584
1.30 g/t Au, 288.0 g/t Ag, 38.80 % Pb
West Nagrak Vein
GNR247
0.93 g/t Au, 29.7 g/t Ag, 0.31 % Zn
GNR561
1.41 g/t Au, 43.3 g/t Ag
GNR582
5.79 g/t Au, 12.9 g/t Ag,
1.08 % Pb, 0.42 % Zn
GNR558
6.4 g/t Ag, 0.54 % Pb, 0.74 % Zn
Sungai Sudi Vein
Leugok Haji 2 Vein
GNR623
1.13 g/t Au
GNR559
15.3 g/t Au, 85.6 g/t Ag
6.80 % Pb, 5.82 % Zn
GNR249
5.7 g/t Ag,
1.64 % Pb, 1.37 % Zn
GNR537
27.30 g/t Au, 62.1 g/t Ag, 0.60 % Cu
0.48 % Pb, 7.27 % Zn
Leugok Haji Vein
GNR538
54.00 g/t Au, 76.0 g/t Ag,
0.84 % Cu, 2.25 % Pb,
5.04 % Zn
GNR556
1.19 g/t Au, 34.8 g/t Ag, 0.41 % Pb
GNR583
1.04 g/t Au, 9.8 g/t Ag
Cikondang Vein
Sambong Vein
GNR595
2.30 g/t Au, 4.7 g/t Ag,
0.44 % Pb, 0.42 % Zn
IUP Boundary
Frame detail
Location map
N
0
200
400
m
Grid Datum: WGS84
Zone 48 South
PARAMOUNT
MINING CORPORATION LTD
Gunung Rosa Project
Zn Vein Results

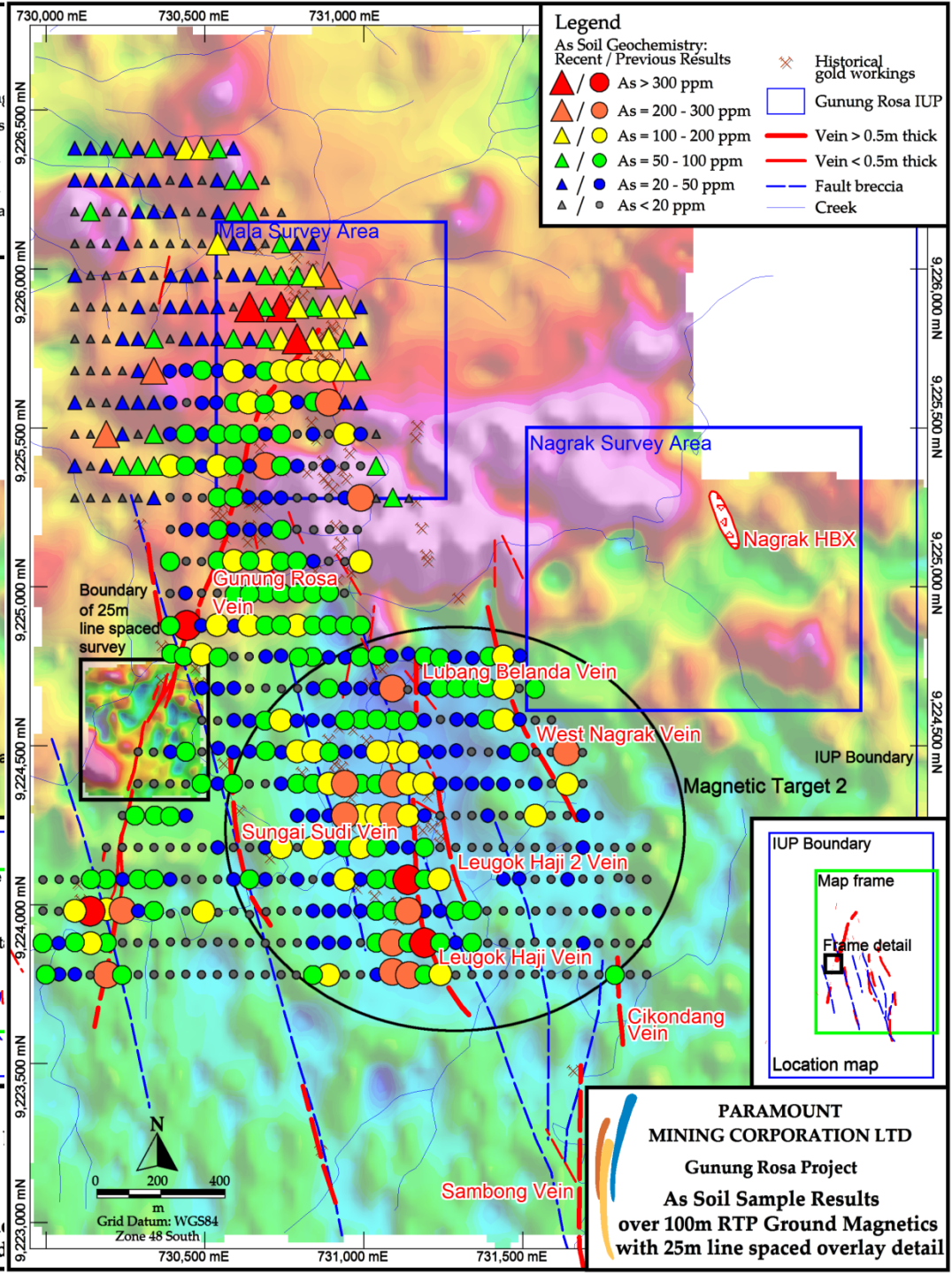

730,000 mE
730,500 mE
731,000 mE
731,500 mE
9,226,500 mN
9,226,000 mN
9,225,500 mN
9,225,000 mN
9,224,500 mN
9,224,000 mN
9,223,500 mN
9,223,000 mN
Legend
New / Previous
Vein sample results
> 5 000 ppm As
2 000 - 5 000 ppm As
1 000 - 2 000 ppm As
500 - 1 000 ppm As
200 - 500 ppm As
< 200 ppm As
(1 000 ppm = 0.1%)
Other
Gunung Rosa I
PCP drill hole
Vein > 0.5m thi
Vein < 0.5m thi
Historical gold working
Creek
Main road
Topographic contour line (5
* For geology legend refer to Geology Fi
GNR533
2.62 g/t Au, 66.6 g/t Ag
0.12 % Cu, 6.80 % Pb, 11.60 % Zn
GNR618
0.85 % Pb, 2.62 % Zn
GNR534
1.81 g/t Au, 3.5 g/t Ag,
0.20 % Pb, 0.45 % Zn
GNR587
1.12 g/t Au, 31.3 g/t Ag,
0.20 % Pb
GNR619
1.12 g/t Au, 0.81 % Pb
GNR624
1.02 g/t Au, 0.22 % Cu,
1.60 % Pb, 1.16 % Zn
GNR616
2.16 g/t Au
GNR620
6.64 g/t Au, 106 g/t Ag,
0.15 % Cu, 0.42 % Pb
Nagrak HBX
GNR554
1.26 g/t Au, 14.9 g/t Ag
GNR536
36.90 g/t Au,
18.0 g/t Ag,
0.31 % Cu,
0.52 % Zn
Gunung Rosa
Vein
Lubang Belanda Vein
GNR584
1.30 g/t Au, 288.0 g/t Ag, 38.80 % Pb
West Nagrak Vein
GNR247
0.93 g/t Au, 29.7 g/t Ag, 0.31 % Zn
GNR561
1.41 g/t Au, 43.3 g/t Ag
GNR582
5.79 g/t Au, 12.9 g/t Ag,
1.08 % Pb, 0.42 % Zn
IUP Bounda
GNR558
6.4 g/t Ag, 0.54 % Pb, 0.74 % Zn
Sungai Sudi Vein
Leugok Haji 2 Vein
GNR623
1.13 g/t Au
GNR559
15.3 g/t Au, 85.6 g/t Ag
6.80 % Pb, 5.82 % Zn
GNR249
5.7 g/t Ag,
1.64 % Pb, 1.37 % Zn
GNR537
27.30 g/t Au, 62.1 g/t Ag, 0.60 % Cu
0.48 % Pb, 7.27 % Zn
Leugok Haji Vein
GNR538
54.00 g/t Au, 76.0 g/t Ag,
0.84 % Cu, 2.25 % Pb,
5.04 % Zn
GNR556
1.19 g/t Au, 34.8 g/t Ag, 0.41 % Pb
GNR583
1.04 g/t Au, 9.8 g/t Ag
Cikondang
Vein
IUP Boundary
Frame deta
Location map
N
0
200
400
m
Grid Datum: WGS84
Zone 48 South
Sambong Vein
GNR595
2.30 g/t Au, 4.7 g/t Ag,
0.44 % Pb, 0.42 % Zn
PARAMOUNT
MINING CORPORATION L
Gunung Rosa Project
As Vein Results

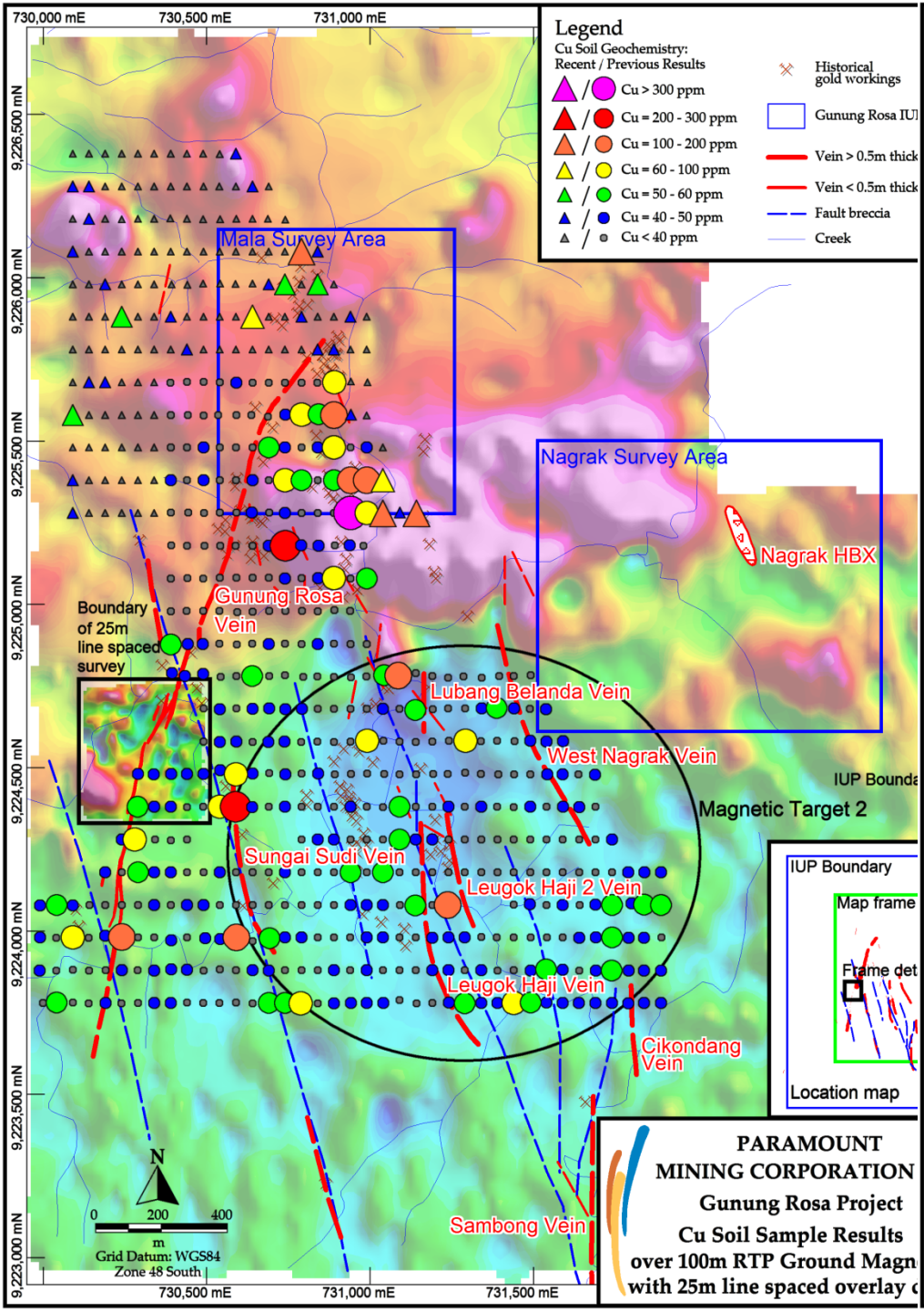

730,000 mE
730,500 mE
731,000 mE
731,500 mE
9,226,500 mN
9,226,000 mN
9,225,500 mN
9,225,000 mN
9,224,500 mN
9,224,000 mN
9,223,500 mN
9,223,000 mN
Legend
New / Previous
Vein sample results
> 200 ppm Sb
100 - 200 ppm Sb
50 - 100 ppm Sb
20 - 50 ppm Sb
10 - 20 ppm Sb
< 10 ppm Sb
Other
Gunung Rosa IUP
PCP drill hole
Vein > 0.5m thick
Vein < 0.5m thick
Historical gold working
Creek
Main road
Topographic contour line (50m)
* For geology legend refer to Geology Figure
GNR533
2.62 g/t Au, 66.6 g/t Ag
0.12 % Cu, 6.80 % Pb, 11.60 % Zn
GNR618
0.85 % Pb, 2.62 % Zn
GNR534
1.81 g/t Au, 3.5 g/t Ag,
0.20 % Pb, 0.45 % Zn
GNR587
1.12 g/t Au, 31.3 g/t Ag,
0.20 % Pb
GNR619
1.12 g/t Au, 0.81 % Pb
GNR624
1.02 g/t Au, 0.22 % Cu,
1.60 % Pb, 1.16 % Zn
GNR616
2.16 g/t Au
GNR620
6.64 g/t Au, 106 g/t Ag,
0.15 % Cu, 0.42 % Pb
Nagrak HBX
GNR554
1.26 g/t Au, 14.9 g/t Ag
GNR536
36.90 g/t Au,
18.0 g/t Ag,
0.31 % Cu,
0.52 % Zn
Gunung Rosa
Vein
Lubang Belanda Vein
GNR584
1.30 g/t Au, 288.0 g/t Ag, 38.80 % Pb
West Nagrak Vein
GNR247
0.93 g/t Au, 29.7 g/t Ag, 0.31 % Zn
GNR561
1.41 g/t Au, 43.3 g/t Ag
GNR582
5.79 g/t Au, 12.9 g/t Ag,
1.08 % Pb, 0.42 % Zn
IUP Boundary
GNR558
6.4 g/t Ag, 0.54 % Pb, 0.74 % Zn
Sungai Sudi Vein
Leugok Haji 2 Vein
GNR623
1.13 g/t Au
GNR559
15.3 g/t Au, 85.6 g/t Ag
6.80 % Pb, 5.82 % Zn
GNR249
5.7 g/t Ag,
1.64 % Pb, 1.37 % Zn
GNR537
27.30 g/t Au, 62.1 g/t Ag, 0.60 % Cu
0.48 % Pb, 7.27 % Zn
Leugok Haji Vein
GNR538
54.00 g/t Au, 76.0 g/t Ag,
0.84 % Cu, 2.25 % Pb,
5.04 % Zn
GNR556
1.19 g/t Au, 34.8 g/t Ag, 0.41 % Pb
GNR583
1.04 g/t Au, 9.8 g/t Ag
Cikondang
Vein
IUP Boundary
Frame detail
Location map
N
0
200
400
m
Grid Datum: WGS84
Zone 48 South
Sambong Vein
GNR595
2.30 g/t Au, 4.7 g/t Ag,
0.44 % Pb, 0.42 % Zn
PARAMOUNT
MINING CORPORATION LTD
Gunung Rosa Project
Sb Vein Results

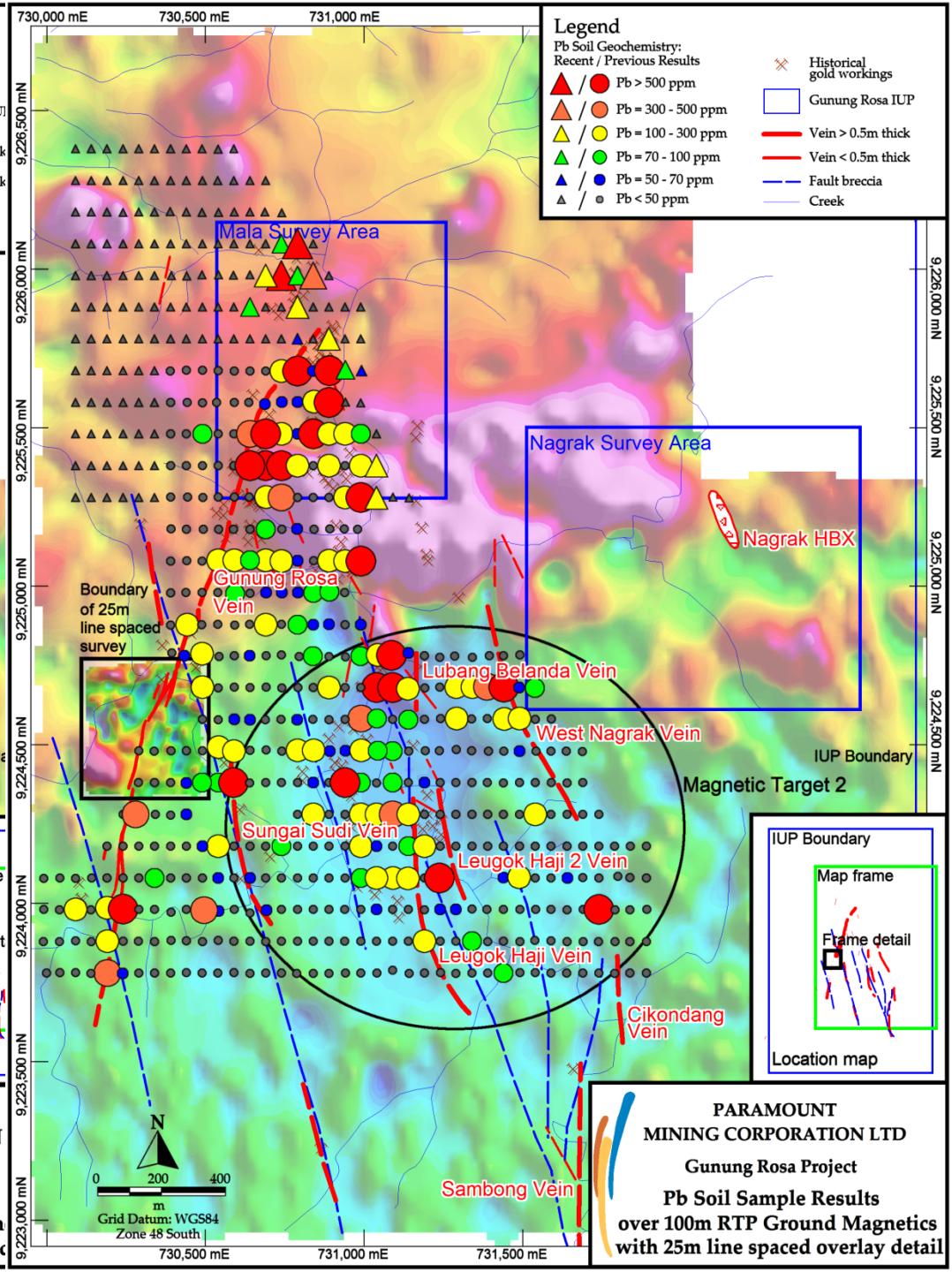

730,000 mE
730,500 mE
731,000 mE
731,500 mE
9,226,500 mN
9,226,000 mN
9,225,500 mN
9,225,000 mN
9,224,500 mN
9,224,000 mN
9,223,500 mN
9,223,000 mN
Legend
New / Previous
Vein sample results
> 10 ppm Mo
5 - 10 ppm Mo
3 - 5 ppm Mo
2 - 3 ppm Mo
1 - 2 ppm Mo
< 1 ppm Mo
Other
Gunung Rosa
PCP drill hole
Vein > 0.5m t
Vein < 0.5m t
Historical gold working
Creek
Main road
Topographic contour line (
* For geology legend refer to Geology F
GNR533
2.62 g/t Au, 66.6 g/t Ag
0.12 % Cu, 6.80 % Pb, 11.60 % Zn
GNR618
0.85 % Pb, 2.62 % Zn
GNR534
1.81 g/t Au, 3.5 g/t Ag,
0.20 % Pb, 0.45 % Zn
GNR587
1.12 g/t Au, 31.3 g/t Ag,
0.20 % Pb
GNR619
1.12 g/t Au, 0.81 % Pb
GNR624
1.02 g/t Au, 0.22 % Cu,
1.60 % Pb, 1.16 % Zn
GNR616
2.16 g/t Au
GNR620
6.64 g/t Au, 106 g/t Ag,
0.15 % Cu, 0.42 % Pb
Nagrak HBX
GNR554
1.26 g/t Au, 14.9 g/t Ag
GNR536
36.90 g/t Au,
18.0 g/t Ag,
0.31 % Cu,
0.52 % Zn
Gunung Rosa Vein
Lubang Belanda Vein
GNR584
1.30 g/t Au, 288.0 g/t Ag, 38.80 % Pb
West Nagrak Vein
GNR247
0.93 g/t Au, 29.7 g/t Ag, 0.31 % Zn
GNR561
1.41 g/t Au, 43.3 g/t Ag
GNR582
5.79 g/t Au, 12.9 g/t Ag,
1.08 % Pb, 0.42 % Zn
IUP Bounda
GNR558
6.4 g/t Ag, 0.54 % Pb, 0.74 % Zn
Sungai Sudi Vein
Leugok Haji 2 Vein
GNR623
1.13 g/t Au
GNR559
15.3 g/t Au, 85.6 g/t Ag
6.80 % Pb, 5.82 % Zn
GNR249
5.7 g/t Ag,
1.64 % Pb, 1.37 % Zn
GNR537
27.30 g/t Au, 62.1 g/t Ag, 0.60 % Cu
0.48 % Pb, 7.27 % Zn
GNR538
54.00 g/t Au, 76.0 g/t Ag,
0.84 % Cu, 2.25 % Pb,
5.04 % Zn
Leugok Haji Vein
GNR556
1.19 g/t Au, 34.8 g/t Ag, 0.41 % Pb
GNR583
1.04 g/t Au, 9.8 g/t Ag
Cikondang Vein
Sambong Vein
GNR595
2.30 g/t Au, 4.7 g/t Ag,
0.44 % Pb, 0.42 % Zn
IUP Boundary
Frame deta
Location map
N
0
200
400
m
Grid Datum: WGS84
Zone 48 South
PARAMOUNT
MINING CORPORATION L
Gunung Rosa Project
Mo Vein Results

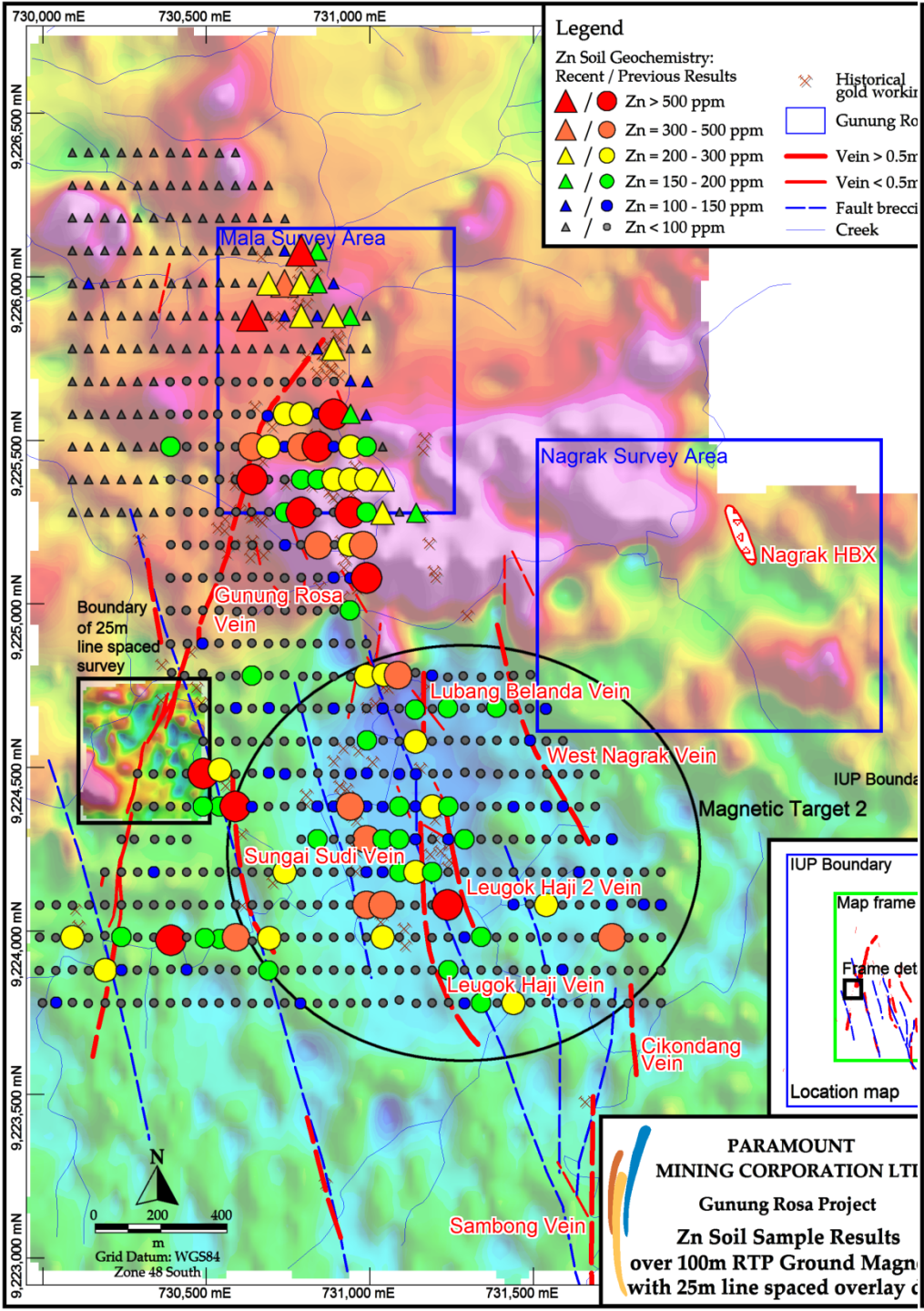

730,000 mE
730,500 mE
731,000 mE
731,500 mE
9,226,500 mN
9,226,000 mN
9,225,500 mN
9,225,000 mN
9,224,500 mN
9,224,000 mN
9,223,500 mN
9,223,000 mN
Legend
New / Previous
Vein sample results
> 50 ppm Bi
20 - 50 ppm Bi
10 - 20 ppm Bi
5 - 10 ppm Bi
2 - 5 ppm Bi
< 2 ppm Bi
Other
Gunung Rosa IUP
PCP drill hole
Vein > 0.5m thick
Vein < 0.5m thick
Historical gold working
Creek
Main road
Topographic contour line (50m)
* For geology legend refer to Geology Figure
GNR533
2.62 g/t Au, 66.6 g/t Ag
0.12 % Cu, 6.80 % Pb, 11.60 % Zn
GNR618
0.85 % Pb, 2.62 % Zn
GNR534
1.81 g/t Au, 3.5 g/t Ag,
0.20 % Pb, 0.45 % Zn
GNR587
1.12 g/t Au, 31.3 g/t Ag,
0.20 % Pb
GNR619
1.12 g/t Au, 0.81 % Pb
GNR624
1.02 g/t Au, 0.22 % Cu,
1.60 % Pb, 1.16 % Zn
GNR616
2.16 g/t Au
GNR620
6.64 g/t Au, 106 g/t Ag,
0.15 % Cu, 0.42 % Pb
Nagrak HBX
GNR554
1.26 g/t Au, 14.9 g/t Ag
GNR536
36.90 g/t Au,
18.0 g/t Ag,
0.31 % Cu,
0.52 % Zn
Gunung Rosa Vein
Lubang Belanda Vein
GNR584
1.30 g/t Au, 288.0 g/t Ag, 38.80 % Pb
West Nagrak Vein
GNR247
0.93 g/t Au, 29.7 g/t Ag, 0.31 % Zn
GNR561
1.41 g/t Au, 43.3 g/t Ag
GNR582
5.79 g/t Au, 12.9 g/t Ag,
1.08 % Pb, 0.42 % Zn
IUP Boundary
GNR558
6.4 g/t Ag, 0.54 % Pb, 0.74 % Zn
Sungai Sudi Vein
Leugok Haji 2 Vein
GNR623
1.13 g/t Au
GNR559
15.3 g/t Au, 85.6 g/t Ag
6.80 % Pb, 5.82 % Zn
GNR249
5.7 g/t Ag,
1.64 % Pb, 1.37 % Zn
GNR537
27.30 g/t Au, 62.1 g/t Ag, 0.60 % Cu
0.48 % Pb, 7.27 % Zn
GNR538
54.00 g/t Au, 76.0 g/t Ag,
0.84 % Cu, 2.25 % Pb,
5.04 % Zn
Leugok Haji Vein
GNR556
1.19 g/t Au, 34.8 g/t Ag, 0.41 % Pb
GNR583
1.04 g/t Au, 9.8 g/t Ag
Cikondang Vein
Sambong Vein
GNR595
2.30 g/t Au, 4.7 g/t Ag,
0.44 % Pb, 0.42 % Zn
IUP Boundary
Frame detail
Location map
N
0
200
400
m
Grid Datum: WGS84
Zone 48 South
PARAMOUNT
MINING CORPORATION LTD
Gunung Rosa Project
Bi Vein Results

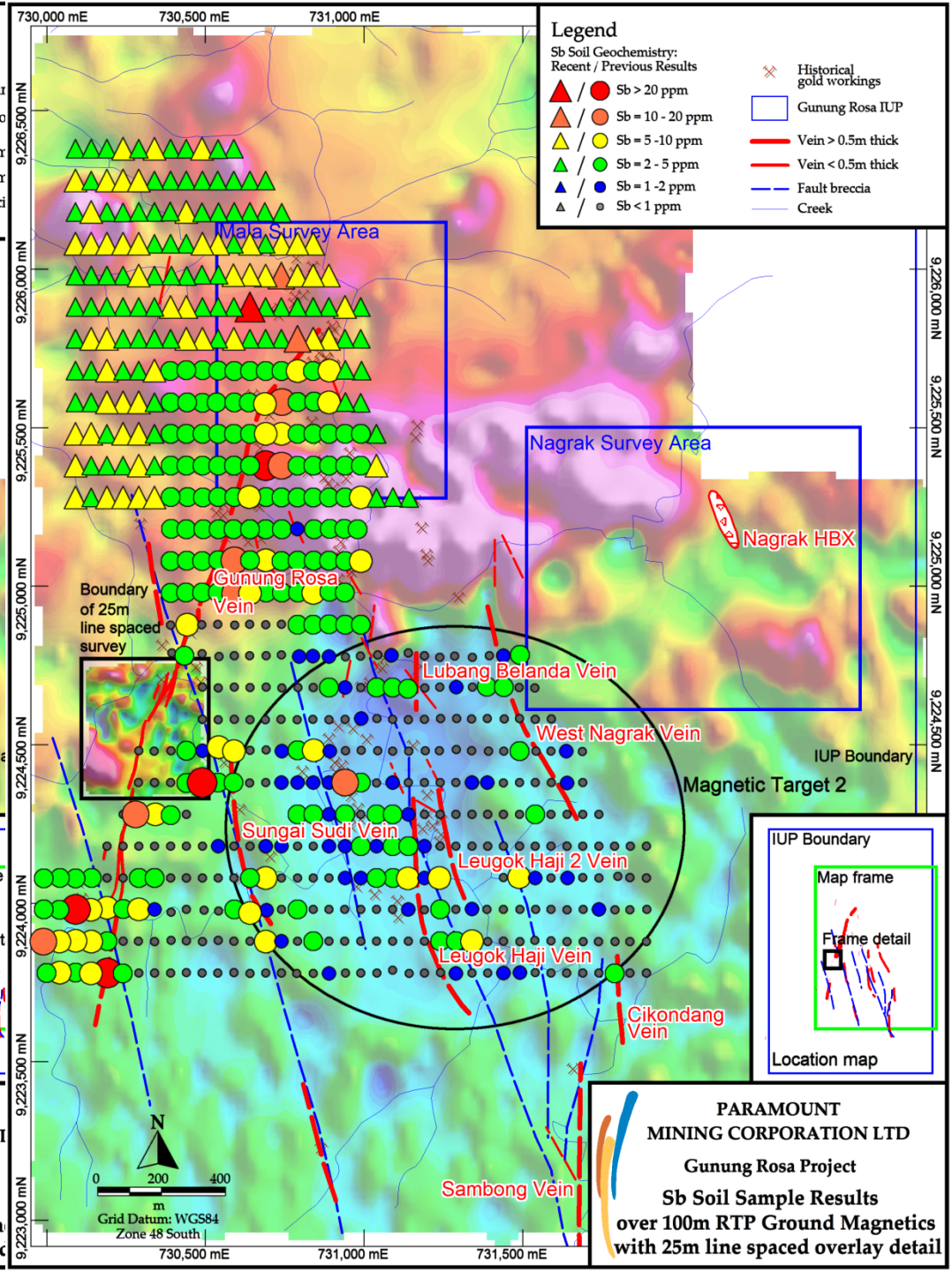

730,000 mE
730,500 mE
731,000 mE
731,500 mE
9,226,500 mN
9,226,000 mN
9,225,500 mN
9,225,000 mN
9,224,500 mN
9,224,000 mN
9,223,500 mN
9,223,000 mN
Legend
Au Soil Geochemistry
Recent / Previous Results
Au > 1 g/t
Au = 0.6 g/t - 1 g/t
Au = 0.3 - 0.6 g/t
Au = 0.1 - 0.3 g/t
Au = 0.005 - 0.1 g/t
Au < 0.005 g/t
Historical gold working
Gunung Ros
Vein > 0.5m
Vein < 0.5m
Fault breccia
Creek
Mala Survey Area
Nagrak Survey Area
Nagrak HBX
Gunung Rosa Vein
Boundary of 25m line spaced survey
Lubang Belanda Vein
West Nagrak Vein
IUP Bounda
Magnetic Target 2
Sungai Sudi Vein
Leugok Haji 2 Vein
Leugok Haji Vein
Cikondang Vein
Sambong Vein
IUP Boundary
Map frame
Frame det
Location map
N
0
200
400
m
Grid Datum: WGS84
Zone 48 South
PARAMOUNT
MINING CORPORATION
Gunung Rosa Project
Au Soil Sample Results
over 100m RTP Ground Magn
with 25m line spaced overlay d

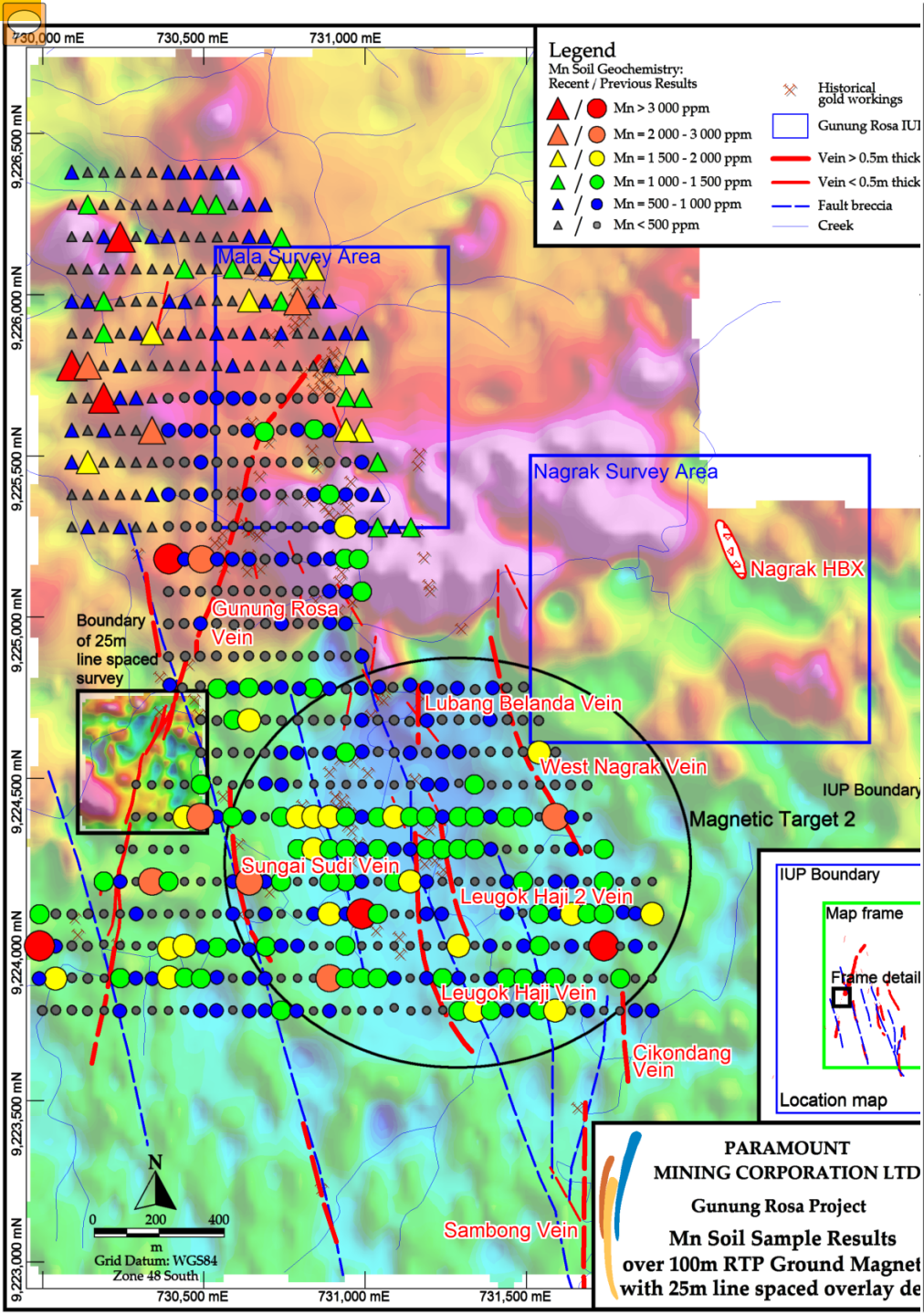

730,000 mE
730,500 mE
731,000 mE
731,500 mE
9,226,500 mN
9,226,000 mN
9,225,500 mN
9,225,000 mN
9,224,500 mN
9,224,000 mN
9,223,500 mN
9,223,000 mN
Legend
As Soil Geochemistry:
Recent / Previous Results
As > 300 ppm
As = 200 - 300 ppm
As = 100 - 200 ppm
As = 50 - 100 ppm
As = 20 - 50 ppm
As < 20 ppm
Historical gold workings
Gunung Rosa IUP
Vein > 0.5m thick
Vein < 0.5m thick
Fault breccia
Creek
Mala Survey Area
Nagrak Survey Area
Nagrak HBX
Gunung Rosa Vein
Boundary of 25m line spaced survey
Lubang Belanda Vein
West Nagrak Vein
IUP Boundary
Magnetic Target 2
Sungai Sudi Vein
Leugok Haji 2 Vein
Leugok Haji Vein
Cikondang Vein
Sambong Vein
IUP Boundary
Map frame
Frame detail
Location map
N
0
200
400
m
Grid Datum: WGS84
Zone 48 South
PARAMOUNT
MINING CORPORATION LTD
Gunung Rosa Project
As Soil Sample Results
over 100m RTP Ground Magnetics
with 25m line spaced overlay detail

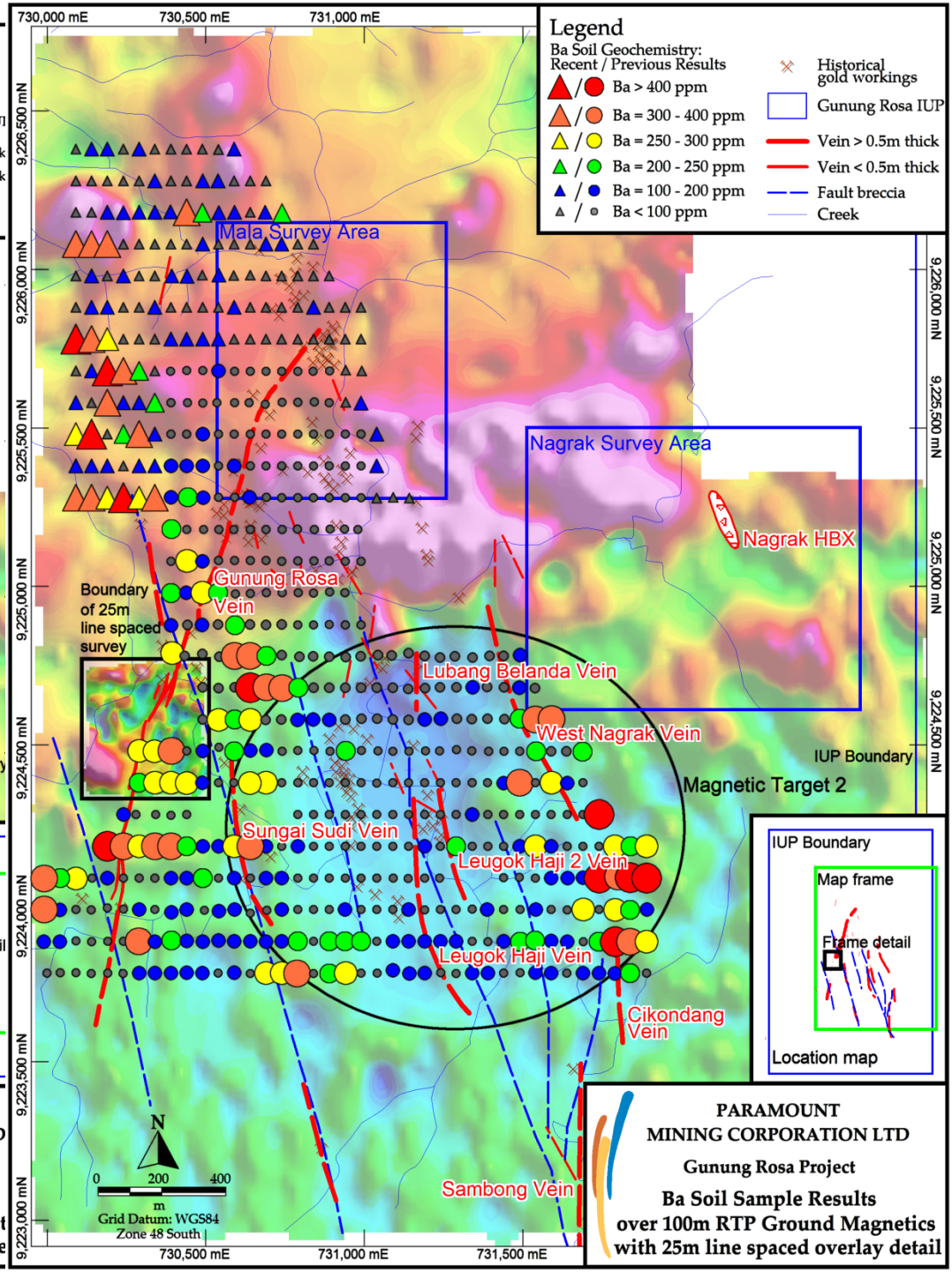

730,000 mE
730,500 mE
731,000 mE
731,500 mE
9,226,500 mN
9,226,000 mN
9,225,500 mN
9,225,000 mN
9,224,500 mN
9,224,000 mN
9,223,500 mN
9,223,000 mN
Legend
Cu Soil Geochemistry:
Recent / Previous Results
Cu > 300 ppm
Cu = 200 - 300 ppm
Cu = 100 - 200 ppm
Cu = 60 - 100 ppm
Cu = 50 - 60 ppm
Cu = 40 - 50 ppm
Cu < 40 ppm
Historical gold workings
Gunung Rosa IUP
Vein > 0.5m thick
Vein < 0.5m thick
Fault breccia
Creek
Mala Survey Area
Nagrak Survey Area
Nagrak HBX
Gunung Rosa Vein
Boundary of 25m line spaced survey
Lubang Belanda Vein
West Nagrak Vein
IUP Boundary
Magnetic Target 2
Sungai Sudi Vein
Leugok Haji 2 Vein
Leugok Haji Vein
Cikondang Vein
Sambong Vein
IUP Boundary
Map frame
Frame detail
Location map
N
0
200
400
m
Grid Datum: WGS84
Zone 48 South
PARAMOUNT
MINING CORPORATION
Gunung Rosa Project
Cu Soil Sample Results
over 100m RTP Ground Magn
with 25m line spaced overlay


730,000 mE
730,500 mE
731,000 mE
731,500 mE
9,226,500 mN
9,226,000 mN
9,225,500 mN
9,225,000 mN
9,224,500 mN
9,224,000 mN
9,223,500 mN
9,223,000 mN
Legend
Pb Soil Geochemistry:
Recent / Previous Results
Pb > 500 ppm
Pb = 300 - 500 ppm
Pb = 100 - 300 ppm
Pb = 70 - 100 ppm
Pb = 50 - 70 ppm
Pb < 50 ppm
Historical gold workings
Gunung Rosa IUP
Vein > 0.5m thick
Vein < 0.5m thick
Fault breccia
Creek
Mala Survey Area
Nagrak Survey Area
Nagrak HBX
Gunung Rosa Vein
Boundary of 25m line spaced survey
Lubang Belanda Vein
West Nagrak Vein
IUP Boundary
Magnetic Target 2
Sungai Sudi Vein
Leugok Haji 2 Vein
Leugok Haji Vein
Cikondang Vein
Sambong Vein
IUP Boundary
Map frame
Frame detail
Location map
N
0
200
400
m
Grid Datum: WGS84
Zone 48 South
PARAMOUNT
MINING CORPORATION LTD
Gunung Rosa Project
Pb Soil Sample Results
over 100m RTP Ground Magnetics
with 25m line spaced overlay detail


730,000 mE
730,500 mE
731,000 mE
731,500 mE
9,226,500 mN
9,226,000 mN
9,225,500 mN
9,225,000 mN
9,224,500 mN
9,224,000 mN
9,223,500 mN
9,223,000 mN
Legend
Zn Soil Geochemistry:
Recent / Previous Results
Zn > 500 ppm
Zn = 300 - 500 ppm
Zn = 200 - 300 ppm
Zn = 150 - 200 ppm
Zn = 100 - 150 ppm
Zn < 100 ppm
Historical gold workir
Gunung Ro
Vein > 0.5m
Vein < 0.5m
Fault brecci
Creek
Mala Survey Area
Nagrak Survey Area
Nagrak HBX
Gunung Rosa Vein
Boundary of 25m line spaced survey
Lubang Belanda Vein
West Nagrak Vein
IUP Bounda
Magnetic Target 2
Sungai Sudi Vein
Leugok Haji 2 Vein
Leugok Haji Vein
Cikondang Vein
Sambong Vein
IUP Boundary
Map frame
Frame det
Location map
N
0
200
400
m
Grid Datum: WGS84
Zone 48 South
PARAMOUNT
MINING CORPORATION LTI
Gunung Rosa Project
Zn Soil Sample Results
over 100m RTP Ground Magn
with 25m line spaced overlay


730,000 mE
730,500 mE
731,000 mE
731,500 mE
9,226,500 mN
9,226,000 mN
9,225,500 mN
9,225,000 mN
9,224,500 mN
9,224,000 mN
9,223,500 mN
9,223,000 mN
Legend
Sb Soil Geochemistry:
Recent / Previous Results
Sb > 20 ppm
Sb = 10 - 20 ppm
Sb = 5 -10 ppm
Sb = 2 - 5 ppm
Sb = 1 -2 ppm
Sb < 1 ppm
Historical gold workings
Gunung Rosa IUP
Vein > 0.5m thick
Vein < 0.5m thick
Fault breccia
Creek
Mala Survey Area
Nagrak Survey Area
Nagrak HBX
Gunung Rosa Vein
Boundary of 25m line spaced survey
Lubang Belanda Vein
West Nagrak Vein
IUP Boundary
Magnetic Target 2
Sungai Sudi Vein
Leugok Haji 2 Vein
Leugok Haji Vein
Cikondang Vein
Sambong Vein
IUP Boundary
Map frame
Frame detail
Location map
N
0
200
400
m
Grid Datum: WGS84
Zone 48 South
PARAMOUNT
MINING CORPORATION LTD
Gunung Rosa Project
Sb Soil Sample Results
over 100m RTP Ground Magnetics
with 25m line spaced overlay detail


730,000 mE
730,500 mE
731,000 mE
731,500 mE
9,226,500 mN
9,226,000 mN
9,225,500 mN
9,225,000 mN
9,224,500 mN
9,224,000 mN
9,223,500 mN
9,223,000 mN
Legend
Mn Soil Geochemistry:
Recent / Previous Results
Mn > 3 000 ppm
Mn = 2 000 - 3 000 ppm
Mn = 1 500 - 2 000 ppm
Mn = 1 000 - 1 500 ppm
Mn = 500 - 1 000 ppm
Mn < 500 ppm
Historical gold workings
Gunung Rosa IUI
Vein > 0.5m thick
Vein < 0.5m thick
Fault breccia
Creek
Mala Survey Area
Nagrak Survey Area
Nagrak HBX
Gunung Rosa Vein
Boundary of 25m line spaced survey
Lubang Belanda Vein
West Nagrak Vein
IUP Boundary
Magnetic Target 2
Sungai Sudi Vein
Leugok Haji 2 Vein
Leugok Haji Vein
Cikondang Vein
Sambong Vein
IUP Boundary
Map frame
Frame detail
Location map
N
0
200
400
m
Grid Datum: WGS84
Zone 48 South
PARAMOUNT
MINING CORPORATION LTD
Gunung Rosa Project
Mn Soil Sample Results
over 100m RTP Ground Magnet
with 25m line spaced overlay de


730,000 mE
730,500 mE
731,000 mE
731,500 mE
9,226,500 mN
9,226,000 mN
9,225,500 mN
9,225,000 mN
9,224,500 mN
9,224,000 mN
9,223,500 mN
9,223,000 mN
Legend
Ba Soil Geochemistry:
Recent / Previous Results
Ba > 400 ppm
Ba = 300 - 400 ppm
Ba = 250 - 300 ppm
Ba = 200 - 250 ppm
Ba = 100 - 200 ppm
Ba < 100 ppm
Historical gold workings
Gunung Rosa IUP
Vein > 0.5m thick
Vein < 0.5m thick
Fault breccia
Creek
Mala Survey Area
Nagrak Survey Area
Nagrak HBX
Gunung Rosa Vein
Boundary of 25m line spaced survey
Lubang Belanda Vein
West Nagrak Vein
IUP Boundary
Magnetic Target 2
Sungai Sudi Vein
Leugok Haji 2 Vein
Leugok Haji Vein
Cikondang Vein
Sambong Vein
IUP Boundary
Map frame
Frame detail
Location map
N
0
200
400
m
Grid Datum: WGS84
Zone 48 South
PARAMOUNT
MINING CORPORATION LTD
Gunung Rosa Project
Ba Soil Sample Results
over 100m RTP Ground Magnetics
with 25m line spaced overlay detail

Preliminary metallurgical studies are very positive.

The Gurung Rosa Composite has a Au grade of 11.4 g/t. It also contains 52 g/t Ag, 7.08% Zn, 2.54% Pb and 0.61% Cu.

80% of the gold in the Gurung Rosa Composite is contained in the +0.038 mm fraction which accounts for 56% of the mass.

Gravity upgrading using a Falcon Concentrator and panning achieved a concentrate containing 2835 g/t Au and 1175 g/t Ag (Test 3 Pan Con 1) which represented 0.1% of the feed mass. The tailings product contained 6.5 g/t Au.

Bulk sulphide flotation of the ore showed that it was possible to recover a concentrate of 30% of the feed mass which contained more than 96% of the Au and Pb and more than 98% of the Zn and Cu (FLT.01).

The effect of conducting differential flotation on a cyanide leach residue was investigated in FLT.06. Despite the poor separation between metal sulphides the two-staged process resulted in the recovery of 92% Au, 90% Ag, 98% Zn, 94% Cu, 91% Pb and 30% of the mass.

Clay-silica-pyrite sample with supergene Au (147 g/t) being guarded by a drone.