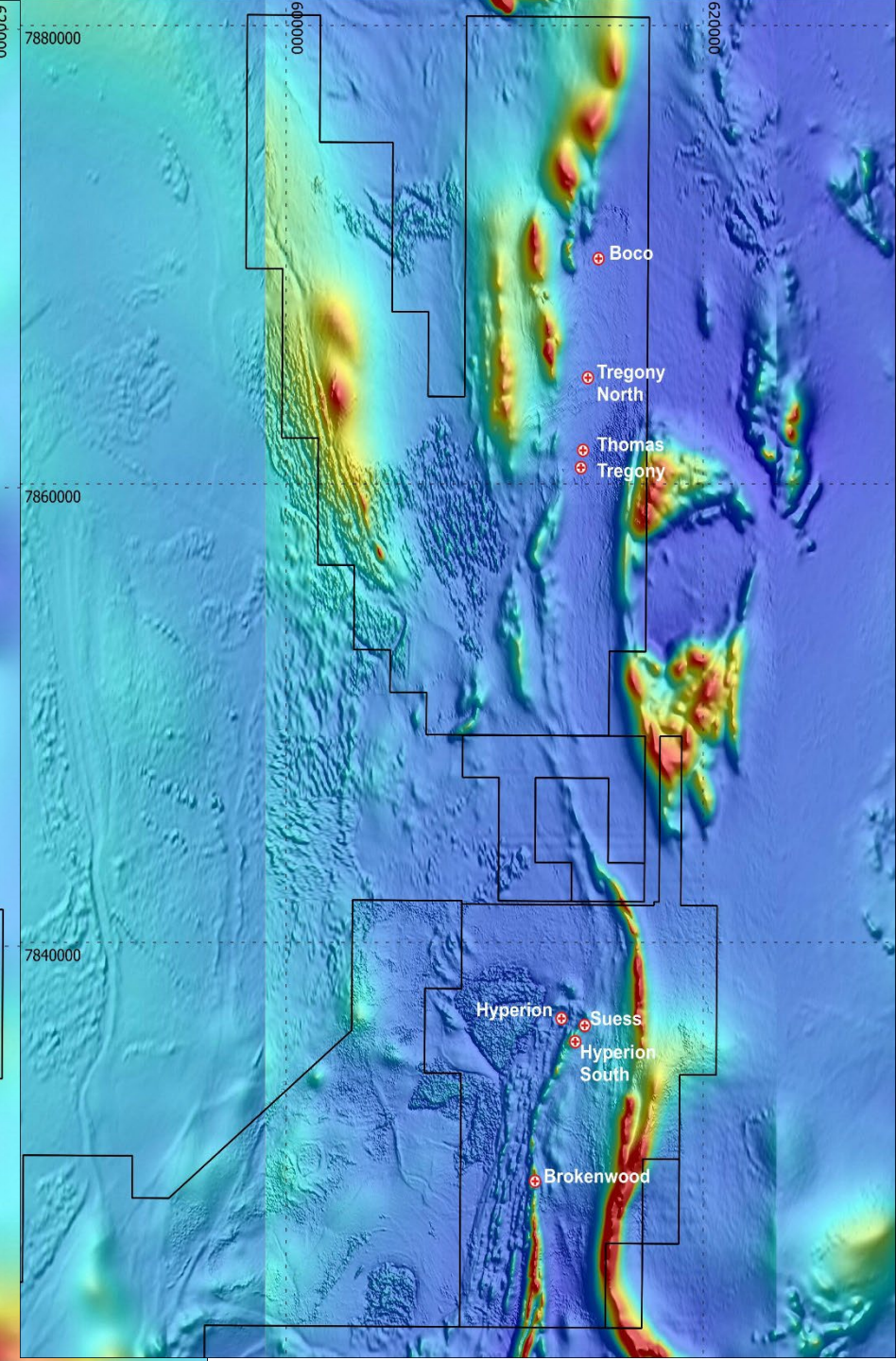
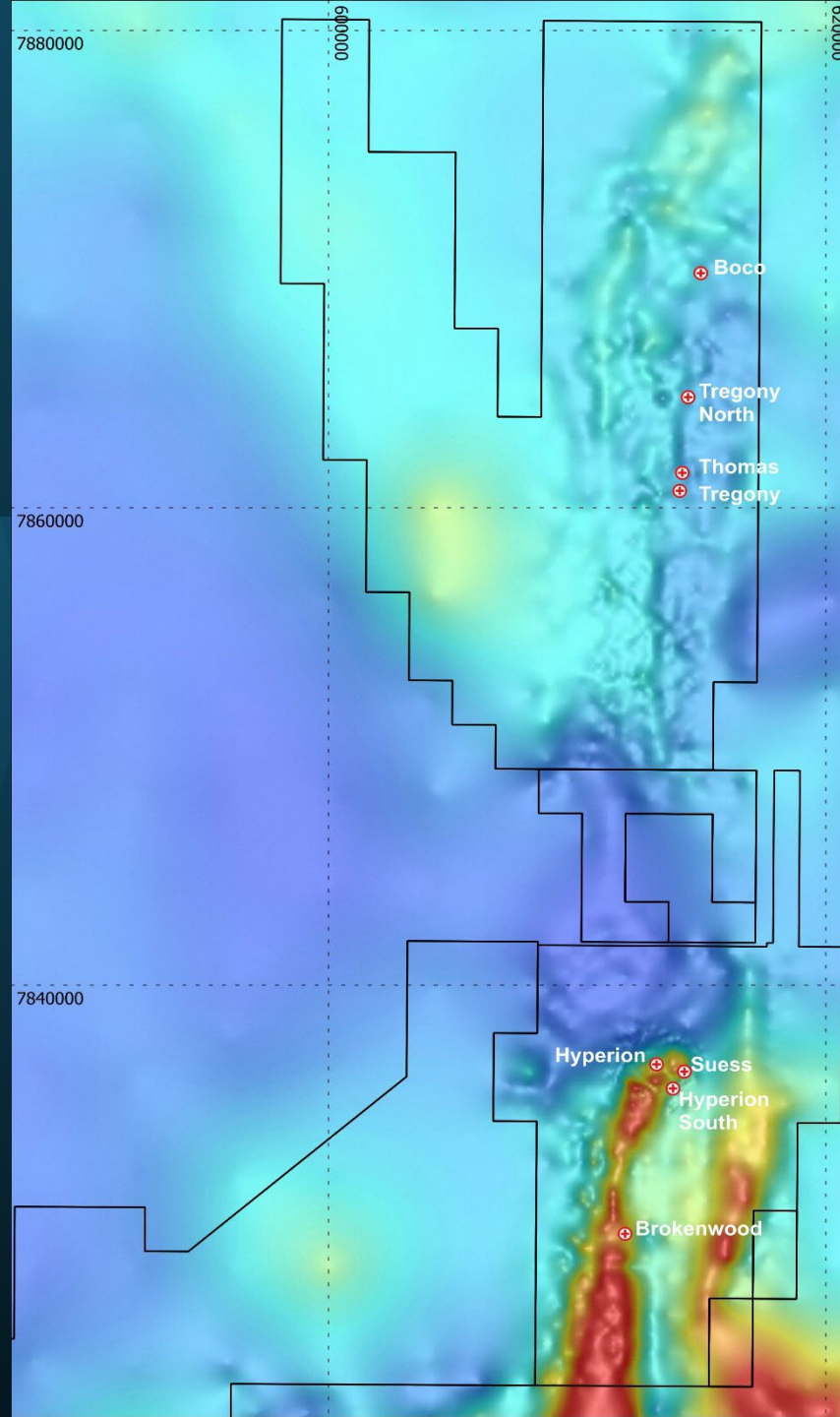


# Unveiling Opportunities: Geophysics in Tanami North Project Target Definition

Gary Ferris  
AGES April 2024



# Important information and Competent Person

## IMPORTANT INFORMATION

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## COMPETENT PERSONS STATEMENT

The information in this presentation relating to exploration targets and exploration results is based on information reviewed and checked by Mr. Mark Edwards, FAusIMM, MAIG. Mr. Edwards is a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM) and a Member of the Australasian Institute of Geoscientists (AIG). Mr. Edwards is a full-time employee of Prodigy Gold NL and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the “Australasian Code for Reporting Exploration Results, Mineral Resources and Ore Reserves”. Mr. Edwards consents to the inclusion in the documents of the matters based on this information in the form and context in which it appears.

This presentation contains information of results from previous ASX announcements: ASX 15/8/2023 – Annual Mineral Resource Statement 2023 – Mark Edwards (FAusIMM, MAIG) who is a full-time employee of Prodigy Gold. ASX 15/8/2023 Prodigy Gold Annual Report – Mark Edwards (FAusIMM, MAIG) who is a full-time employee of Prodigy Gold. ASX 31/5/2023 Prodigy Gold Successfully Receives Two Exploration Grants under the Resourcing the Territory Initiative – Mark Edwards (FAusIMM, MAIG) who is a full-time employee of Prodigy Gold. ASX 10/3/2023 Buccaneer Gold Project - Metallurgical Update – Mark Edwards (FAusIMM, MAIG) who is a full-time employee of Prodigy Gold. ASX 6/2/2023. ASX (TAM) 24/11/2022 – Mineral Resource Updates Completed for five Gold Deposits on the Central Tanami Project Joint Venture Yields 1.5M ounces – Graeme Thompson (MAusIMM) who was at the time an employee of MoJoe Mining Pty Ltd. ASX:23/08/2023 – Exploration Update for the Tanami North Project – Ed Keys (MAIG) former full-time employee of Prodigy Gold. ASX:13/08/2023 – Tanami North Surface Samples Return Encouraging Gold Results – Ed Keys (MAIG) former full-time employee of Prodigy Gold. ASX: 19/09/2023 – Tregony Drilling Returns High-Grade Intercepts - Mark Edwards (FAusIMM, MAIG) who is a full-time employee of Prodigy Gold. ASX: 12/10/2023 – Hyperion Drilling Returns High-Grade Intercepts - Mark Edwards (FAusIMM, MAIG) who is a full-time employee of Prodigy Gold. ASX: 06/10/2023 – Tanami North Exploration Update - Mark Edwards (FAusIMM, MAIG) who is a full-time employee of Prodigy Gold. ASX: 06/12/2023 – Diamond Drilling at Tregony Returns Encouraging Intercepts - Mark Edwards (FAusIMM, MAIG) who is a full-time employee of Prodigy Gold. ASX: 29/01/2024 – Further Positive Drilling Results from Tregony - Mark Edwards (FAusIMM, MAIG) who is a full-time employee of Prodigy Gold.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and, in the case of estimates of Mineral Resources that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

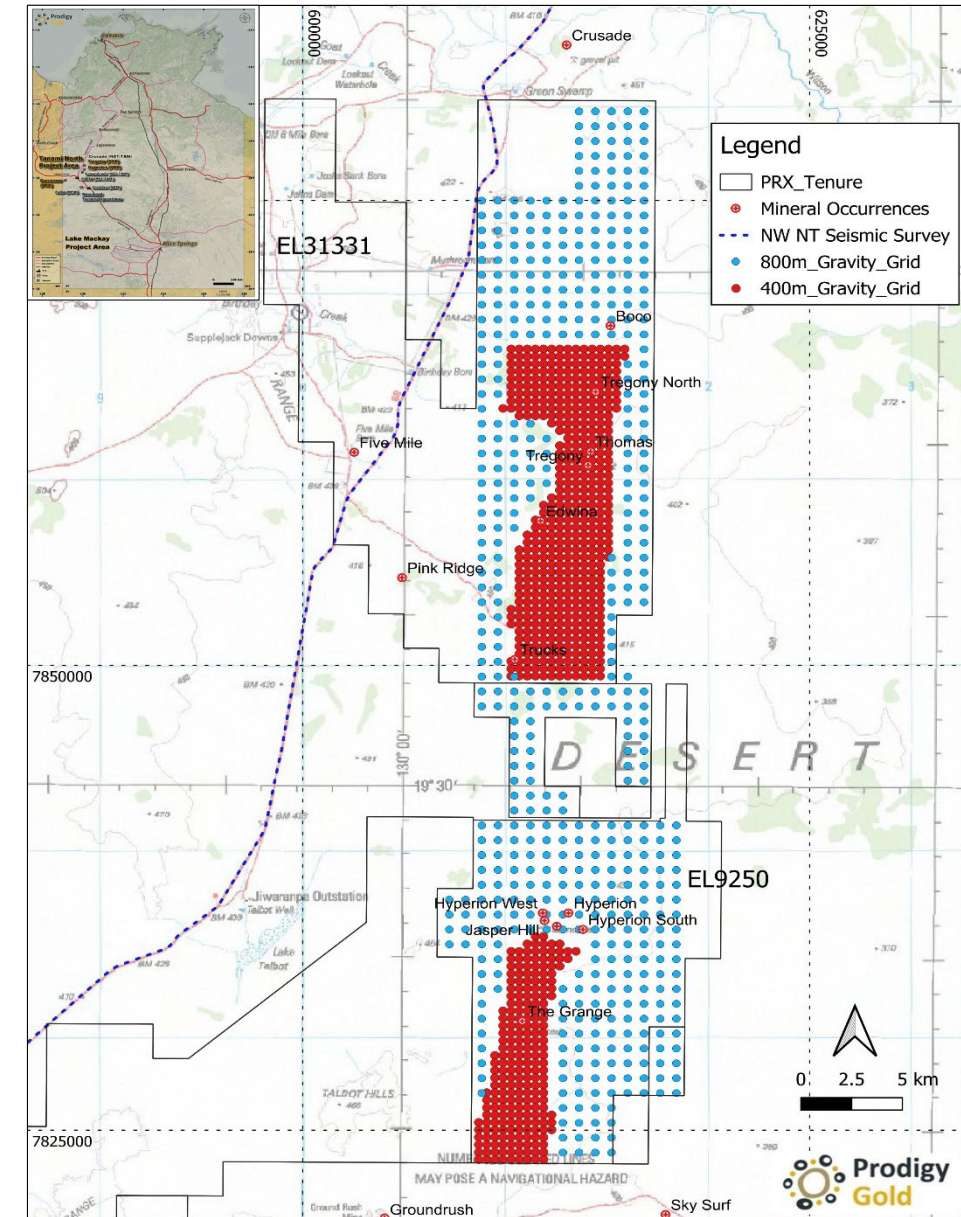
Refer to previous Company ASX announcements for full resource estimation details, drill hole details, and intercept calculations. Prodigy Gold confirms that it is not aware of any new information or data that materially affects the information included in the market announcement and that all material assumptions and technical parameters underpinning the estimates included in referenced previous market announcements continue to apply and have not materially changed.

Approved for release by the Board of Directors.



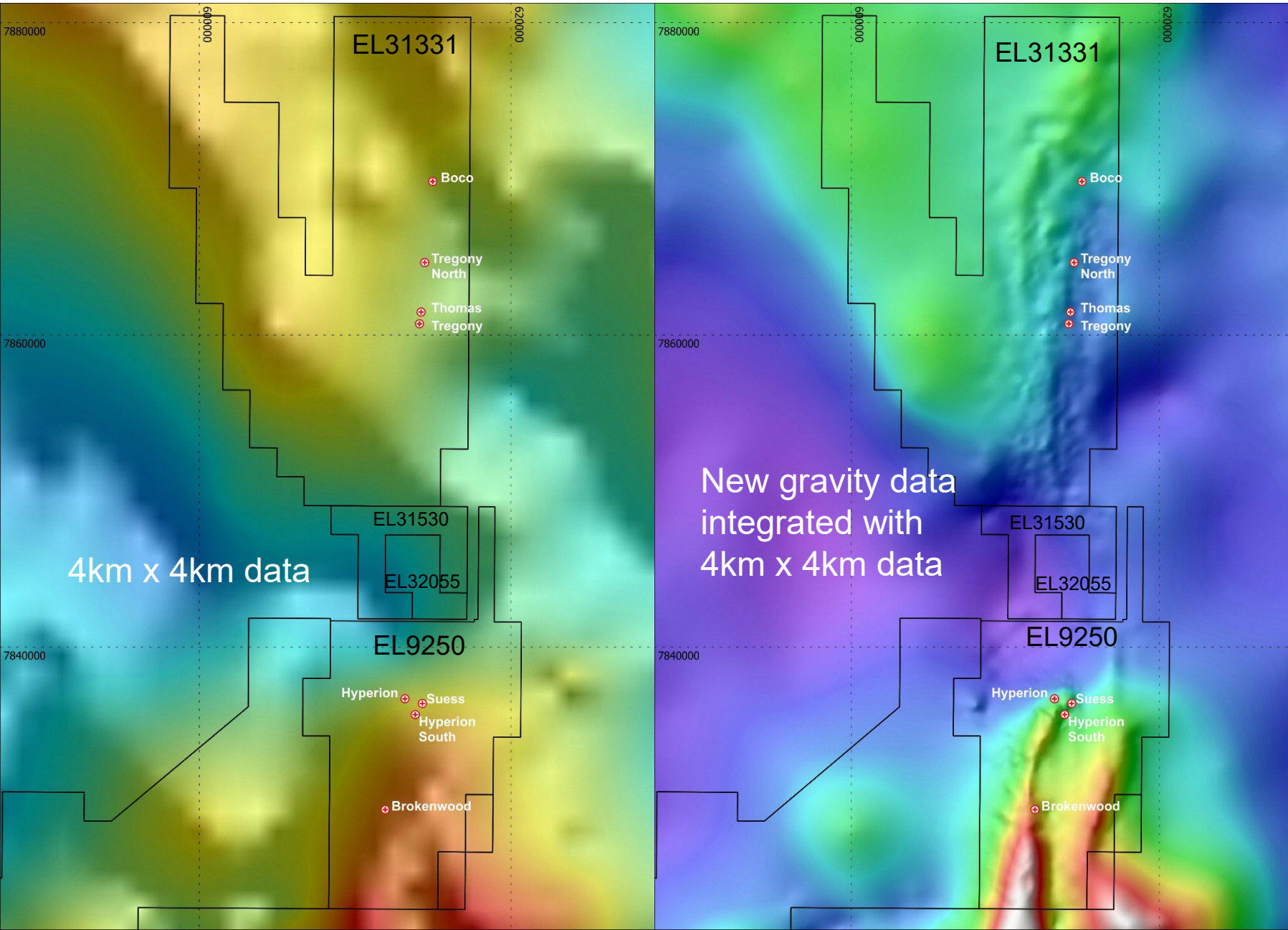
# ●●● Tanami North Gravity Survey

- The Tanami North Project area is located along strike of the Central Tanami Project, which includes the Groundrush gold deposit ~20km south of Hyperion.
- In total, 1233 new gravity stations were acquired by Daishsat Geodetic Surveyors.
- The survey took 22 field days to complete<sup>1</sup>.
- The survey was co-funded under Round 16 of the Resourcing the Territory grants.
- The Tanami North Gravity survey was a mix of regional 800m x 800m stations around the core mineralised zones at Tregony and Hyperion where 400m x 400m gravity data was collected.
- The NW NT Seismic Line located to the west along the Lajamanu Road – gravity data collected by the NTGS and GA will assist in regional seismic data interpretations.



<sup>1</sup> ASX: 6 November 2023

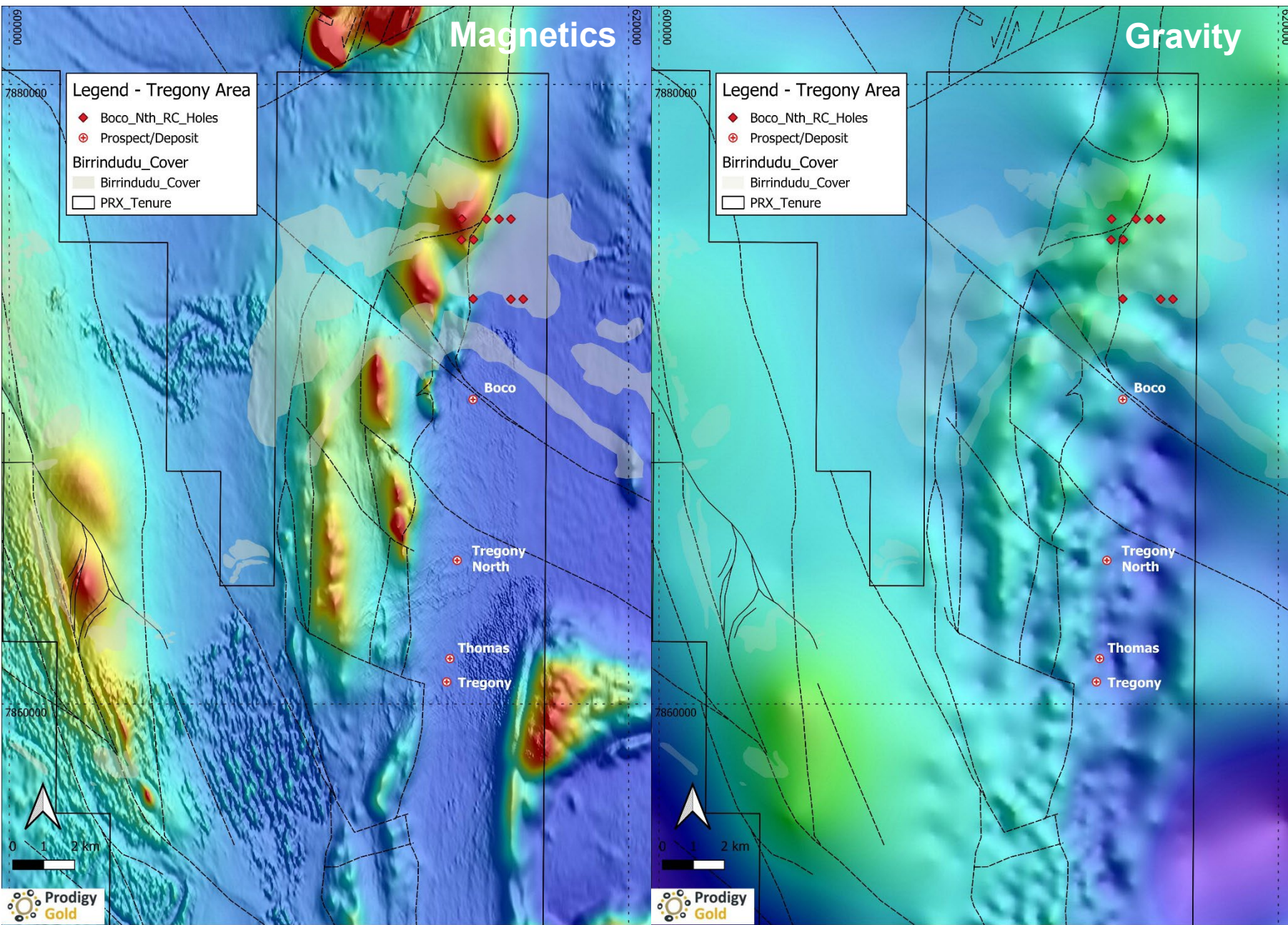
# ••• Tanami North Gravity Survey



- The survey was aimed at increasing the resolution of the previously available 4km spaced gravity data for the project area.
- Data was reprocessed by *Resource Potentials* based in Perth
- The new data on the tighter spacing clearly shows greater detail in the Tregony area
- The new data shows similarly enhanced detail at Hyperion
- Another objective of the gravity survey was to assist in defining the southern boundary for the Suplejack Downs Sandstone ('SDS') north of Boco



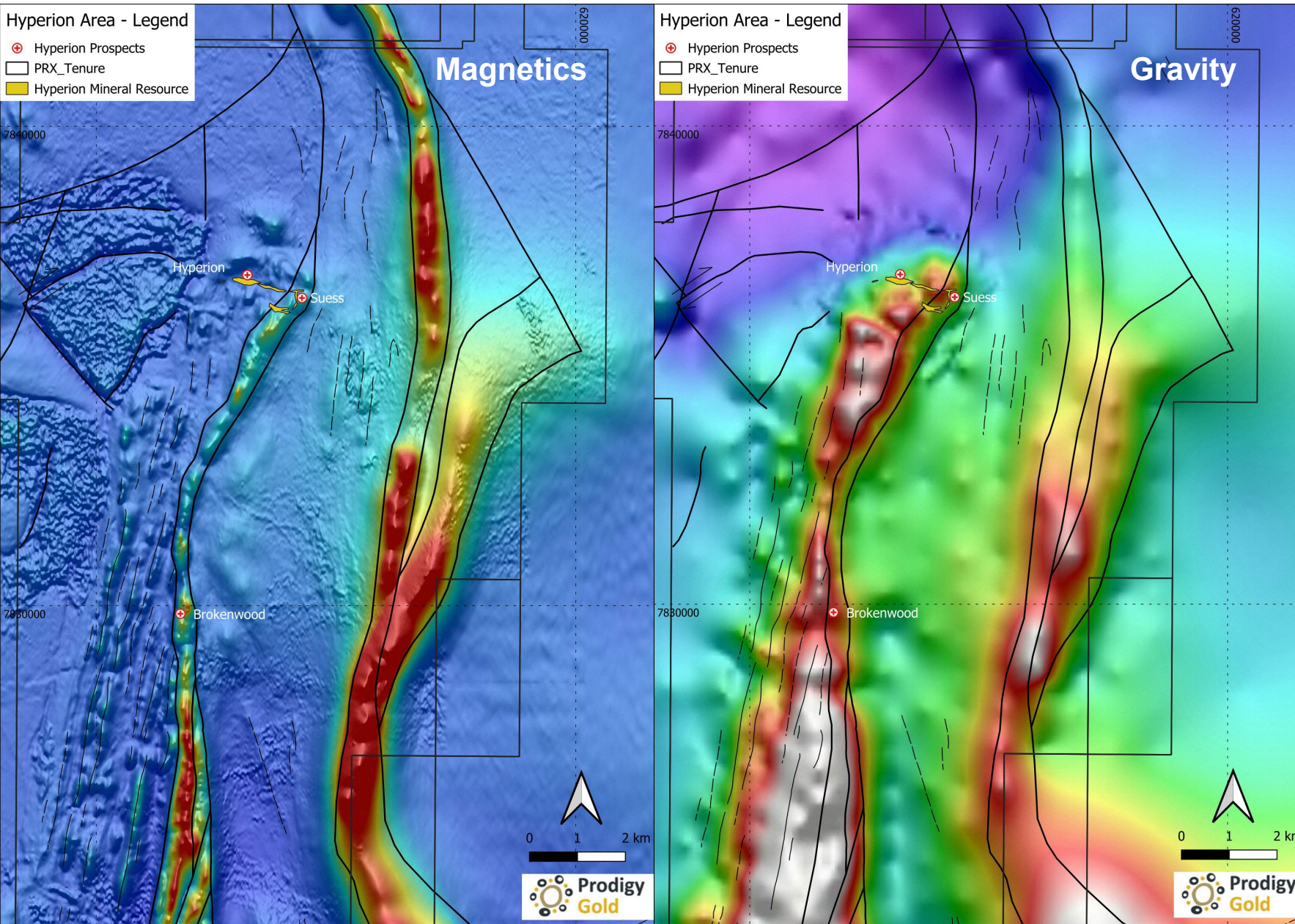
# Tanami North Gravity Survey – Boco North Area



- Prodigy completed a nine-hole RC program at Boco North in mid-2023 aimed at outlining areas of the underlying prospective Tanami Group.
- Historical drilling at Boco showed no SDS and several holes reported  $>1\text{g/t Au}$
- The drilling program failed to reach the interpreted Tanami Group below the SDS with a vertical hole drilled to 300m bottoming out within the SDS.
- The gravity data will assist in outlining the southern boundary of the SDS, allowing Prodigy Gold to better design future exploration programs along the Suplejack Shear Zone (SSZ)



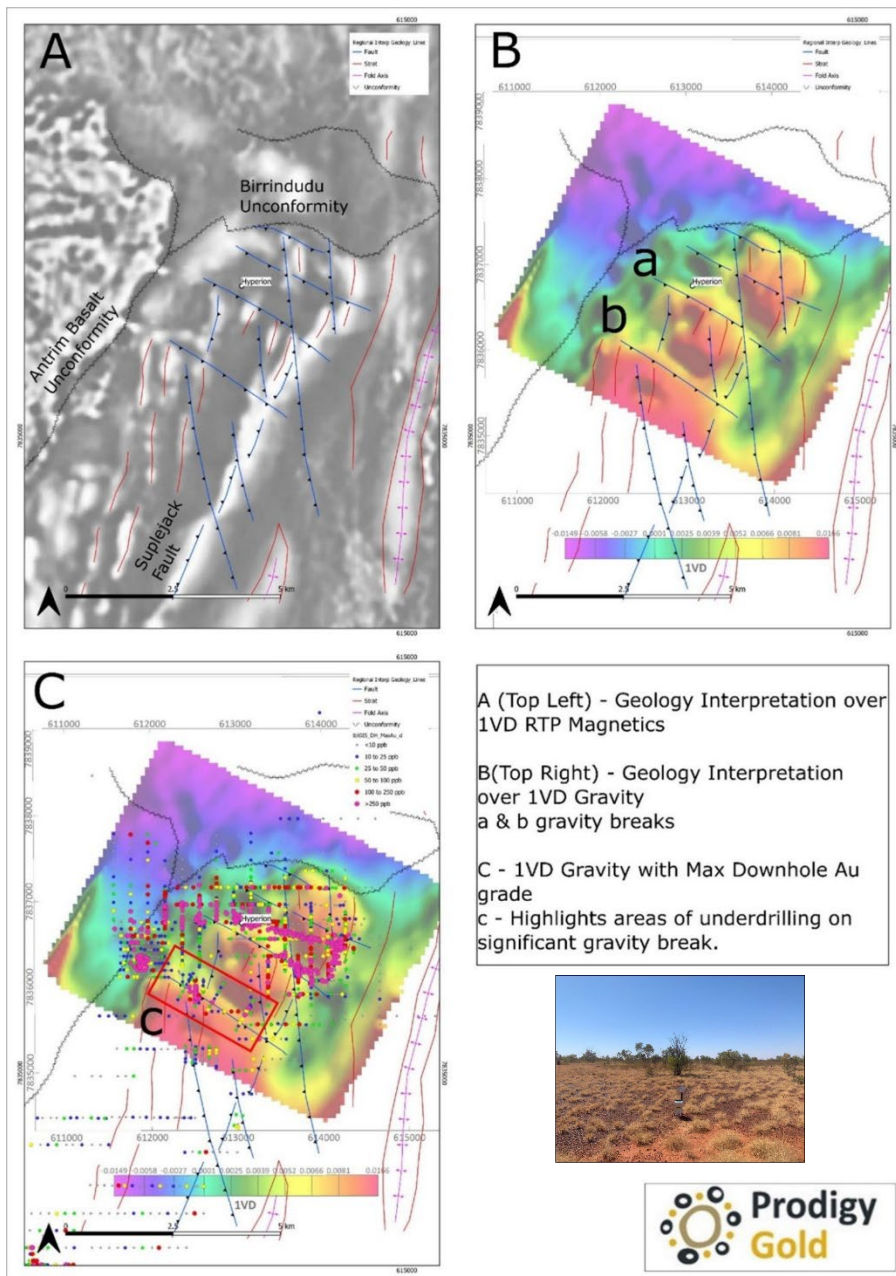
# Tanami North Gravity Survey – EL9250 Hyperion



- The Hyperion Deposit - 0.89Mt @ 2.3g/t Au for 66koz of Indicated Resources and 3.6Mt @ 2.2g/t Au for 248koz of Inferred Resources for a total Resource of 314Koz (100% Prodigy Gold)<sup>2</sup>
- Mineralisation at the Hyperion Deposit is associated with a structural break between regional north-south trending thrust faults.
- Interpretation of the aeromagnetic data indicates that the western margin of the Suplejack belt comprises a 3km wide sequence of the Mt Charles Formation, which is thrust over the younger Killi Killi Formation sediments to the east by the Suplejack Fault.



# Detailed Hyperion Gravity Survey



- In October 2019 Atlas Geophysics completed an 852 station gravity survey over Hyperion
- The co-funded survey was completed on a 250m x 50m grid
- The aim of the survey was to:
  - Map out the density differences between the basalts, mafic sediments, intermediate sediments and the felsic sediments and provide a focussed target for drilling.
  - Resolve early basin forming structures that potentially control mineralising fluid flow.
  - Compliment airborne magnetic data.
- The data clearly shows the NW trending gravity breaks, which appear to be controlling structures for mineralisation
- The NW trending gravity breaks broadly correlate with the major gold hosting structures at Hyperion, however there are angular differences between structural interpretations derived from the magnetics and gravity data
- The survey also identified an area to the south of the main Hyperion deposits which requires further drilling and will be the focus of future drilling programs

# Downhole Wireline Logging

## *Advantages of collecting Downhole Wireline Data for Gold Exploration*

- The existence of broken zones and core loss present difficulties in obtaining orientation data
- Where core orientation is achieved, errors and uncertainties are estimated to be between  $9^\circ$  and  $16^\circ$  at best (Holcombe 2013)
- Multidisciplinary data
- Reliable data – structural and depth measurement (high accuracy and resolution)
- Geological characterisation
- Mineral identification
- Fast cost-effective incorporation of structural data into databases
- Cost effective – ability to collect multiple measurements in a single logging run
- Possibility of logging old drillholes – including RC drillholes



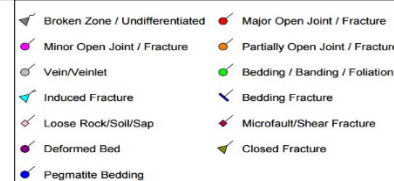
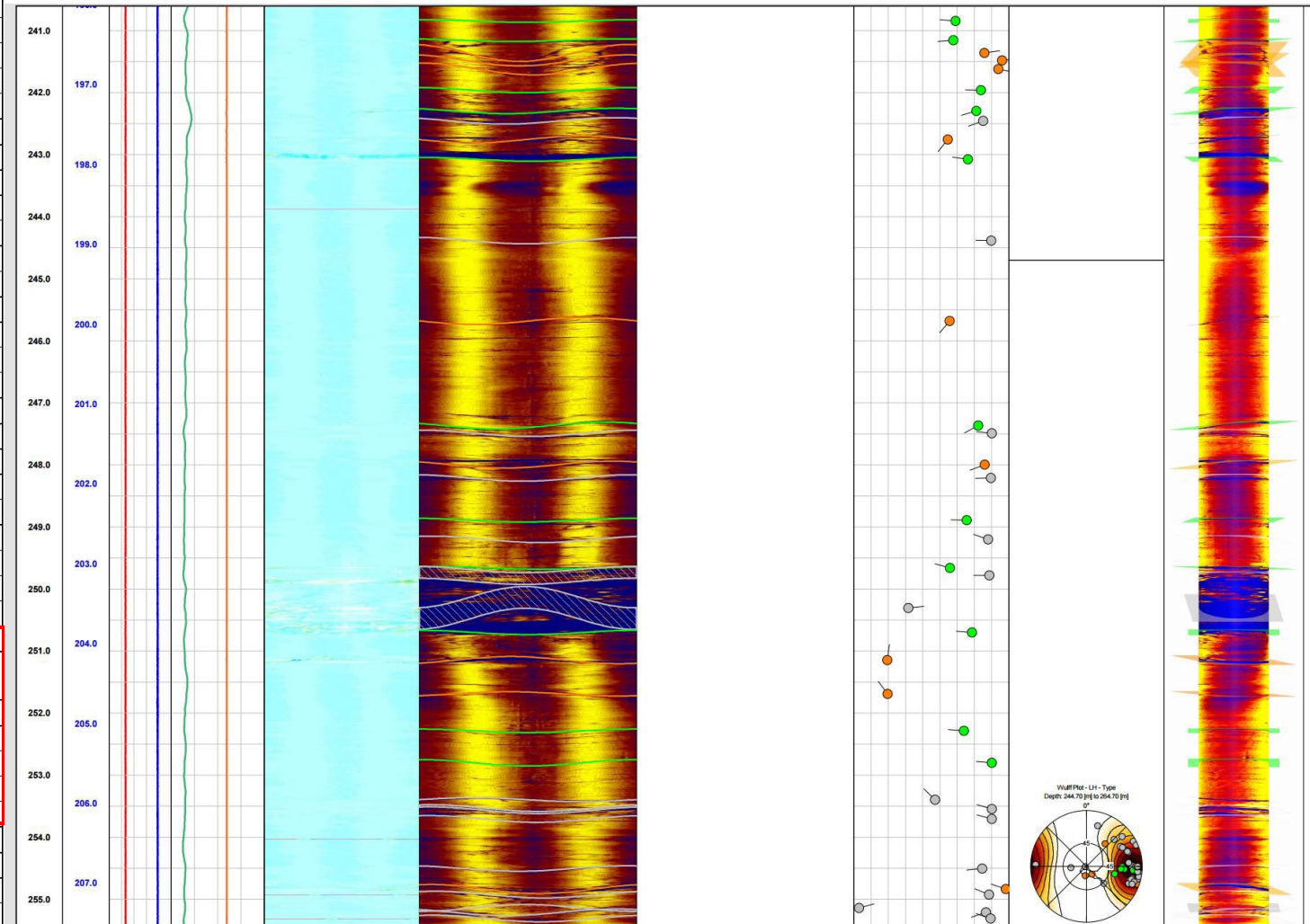


# Downhole Wireline Logging

## Common Logging Tools and Summary of Their Uses

TOOL	ITS USE
Natural Gamma	<ul style="list-style-type: none"> <li>• Can help to define lithology</li> <li>• Stratigraphic correlation</li> <li>• Assessment of relative sand/silt/clay content</li> <li>• Well completion studies</li> <li>• Uranium/coal/shale exploration</li> </ul>
Magnetic Susceptibility	<ul style="list-style-type: none"> <li>• Detects magnetic minerals, which can help to define lithology</li> <li>• Formation-water salinity mapping</li> <li>• Delineation of altered sequences</li> </ul>
Conductivity	<ul style="list-style-type: none"> <li>• Can help to define lithology in sections of wells not cased with metal</li> <li>• Stratigraphic correlation</li> <li>• Can be used to assess relative sand/silt/clay content</li> </ul>
Neutron	<ul style="list-style-type: none"> <li>• Can help to define lithology</li> <li>• Can aid in defining zones of saturated porosity</li> </ul>
Gamma-Gamma	<ul style="list-style-type: none"> <li>• Can help to define lithology</li> <li>• Provides estimates of bulk density, moisture content</li> </ul>
Caliper	<ul style="list-style-type: none"> <li>• Provides a record of borehole diameter</li> <li>• Helps to delineate fracture zones</li> <li>• Delineates areas of borehole collapse</li> <li>• Provides correction factors for other borehole tools</li> </ul>
Full Waveform Sonic	<ul style="list-style-type: none"> <li>• Calculation of P and S wave velocities</li> <li>• Delineation of zones of saturated porosity</li> <li>• Can help to define lithology</li> <li>• Estimates of rock strength and elasticity</li> <li>• Borehole completing studies: to identify zones of incomplete or inconsistent casing grout</li> </ul>
Optical Televiwer (above water table)	<ul style="list-style-type: none"> <li>• Provides an oriented digital image of the borehole wall</li> <li>• Fracture delineation, measurement and characterization (strike, dip, aperture size, frequency)</li> <li>• Structural and geological information</li> <li>• Allows for the identification of layering, fabric, foliation</li> </ul>
Acoustic Televiwer (below water table)	<ul style="list-style-type: none"> <li>• Fracture identification and characterization (strike, dip, aperture size, frequency)</li> <li>• Rock Integrity / Hardness</li> <li>• Identification of layering/fabric/foliation</li> </ul>
Resistivity	<ul style="list-style-type: none"> <li>• Identification of zones of conductive mineralization</li> <li>• Delineation of fracture zones</li> <li>• Permeability Profiling</li> </ul>
Induced Polarization	<ul style="list-style-type: none"> <li>• Permeability estimates</li> <li>• Results can show the presence of disseminated sulphides</li> </ul>
Temperature / Fluid Resistivity	<ul style="list-style-type: none"> <li>• Identification of zones of variable water quality</li> <li>• Identification of zones of variable salinity</li> <li>• Fracture delineation</li> <li>• Assessment of temperature gradient</li> <li>• Temperature log provides valuable correction data for other logs</li> </ul>
Impeller Flow Meter	<ul style="list-style-type: none"> <li>• Delineation of water flow zones</li> </ul>

## Drill Hole TDRD2301 - 241-255m



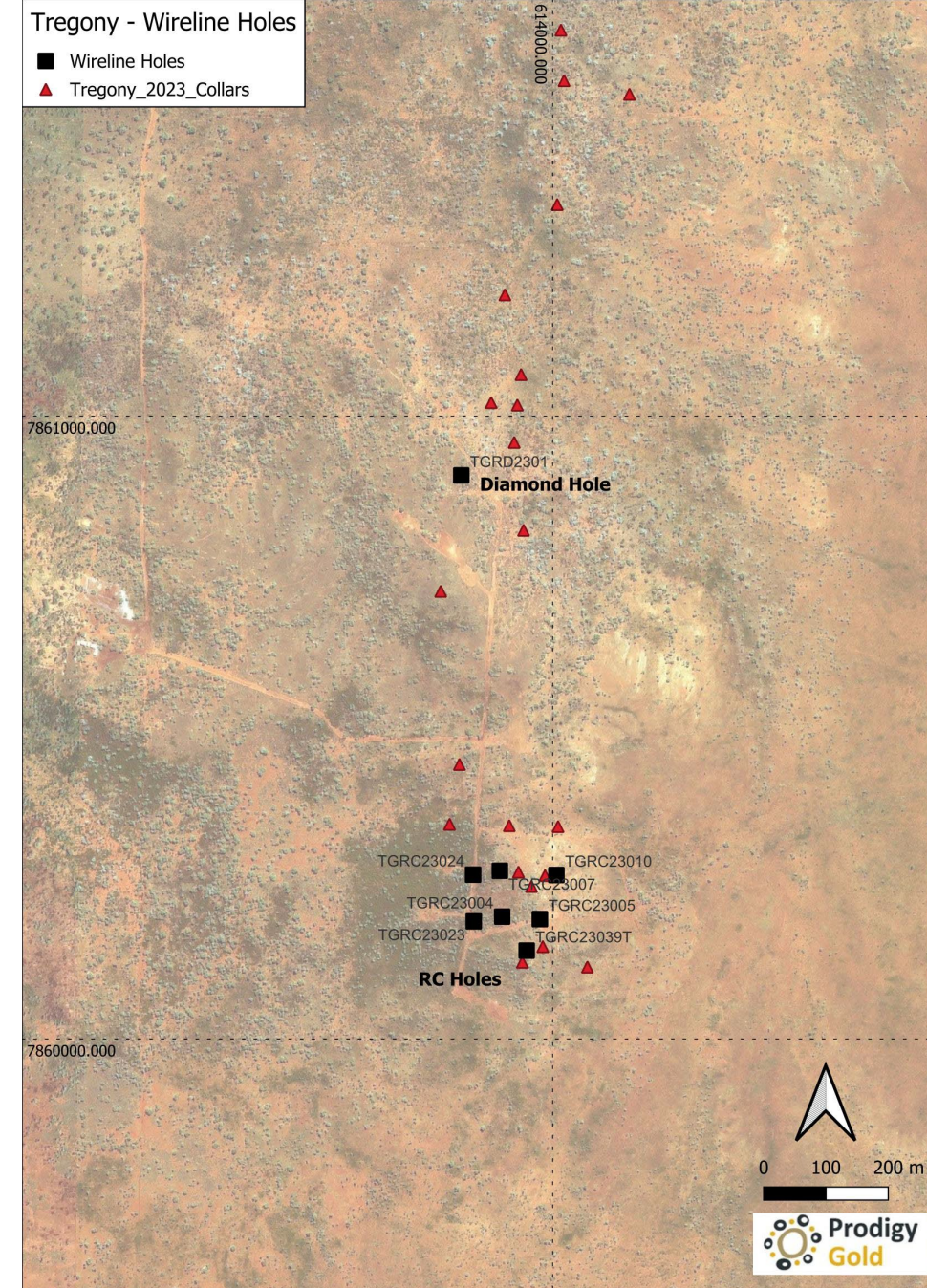
Source: Enerson Geophysical Explorations Company presentation 2018.  
[https://zbook.org/read/bee9b0\\_enerson-wireline-services-presentation-v1-pdf.html](https://zbook.org/read/bee9b0_enerson-wireline-services-presentation-v1-pdf.html)





# Downhole Wireline Logging

- The Wireline Services Group completed downhole logging in the Tregony area over 6.5 field days.
- The program involved full-tool-suite logging on diamond hole TGRD2301 and five RC holes averaging 140m depth, with partial-tool-suite logging on three additional RC holes.
- The full-tool-suite included density, gamma, conductivity, full-wave sonic, high-resolution acoustic formation imaging, and optical surveys.
- The survey aimed to:
  - investigate structures related to higher-grade gold mineralisation
  - understand vein orientation and other detectable structures associated with mineralisation
  - analyse reliable stratigraphy through gamma/resistivity
  - compare barren rock with mineralised responses
  - delineate downhole regolith boundaries using gamma
  - utilise calliper measurements to identify voids and areas of lost core
  - measure bulk density of mineralisation versus barren rock.





# Drill Hole TGRD2301

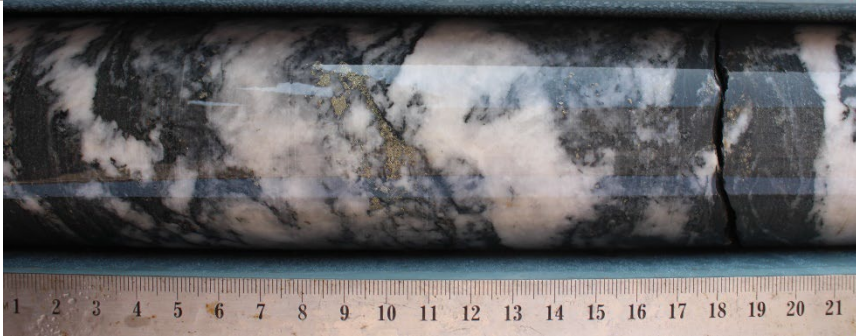
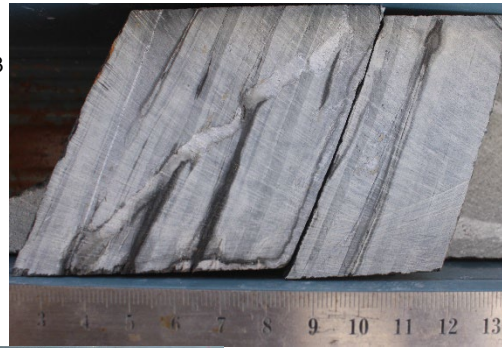
## General Observations

- Upper part of hole dominantly shale – abundant bedding observations
- Large zone of dominantly sandstone – less bedding observations – more vein observations
- Two main vein orientations
  1. Bedding/layer parallel
  2. Discordant to bedding
- Zones of “massive quartz” which are not recorded as veins

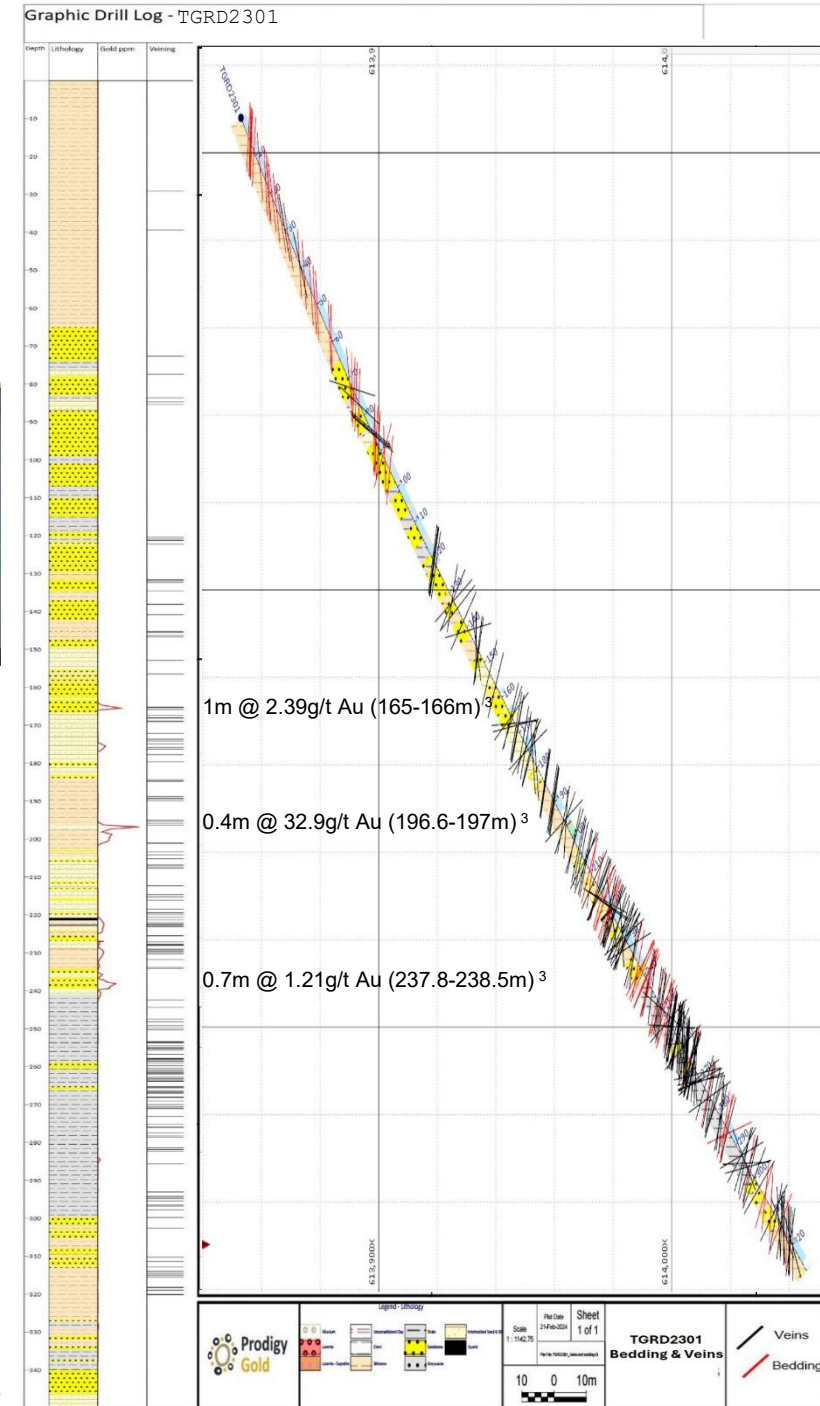


207m  
(207-208m – 0.005g/t Au)<sup>3</sup>

223.5m  
(223-224m 0.2g/t Au)<sup>3</sup>

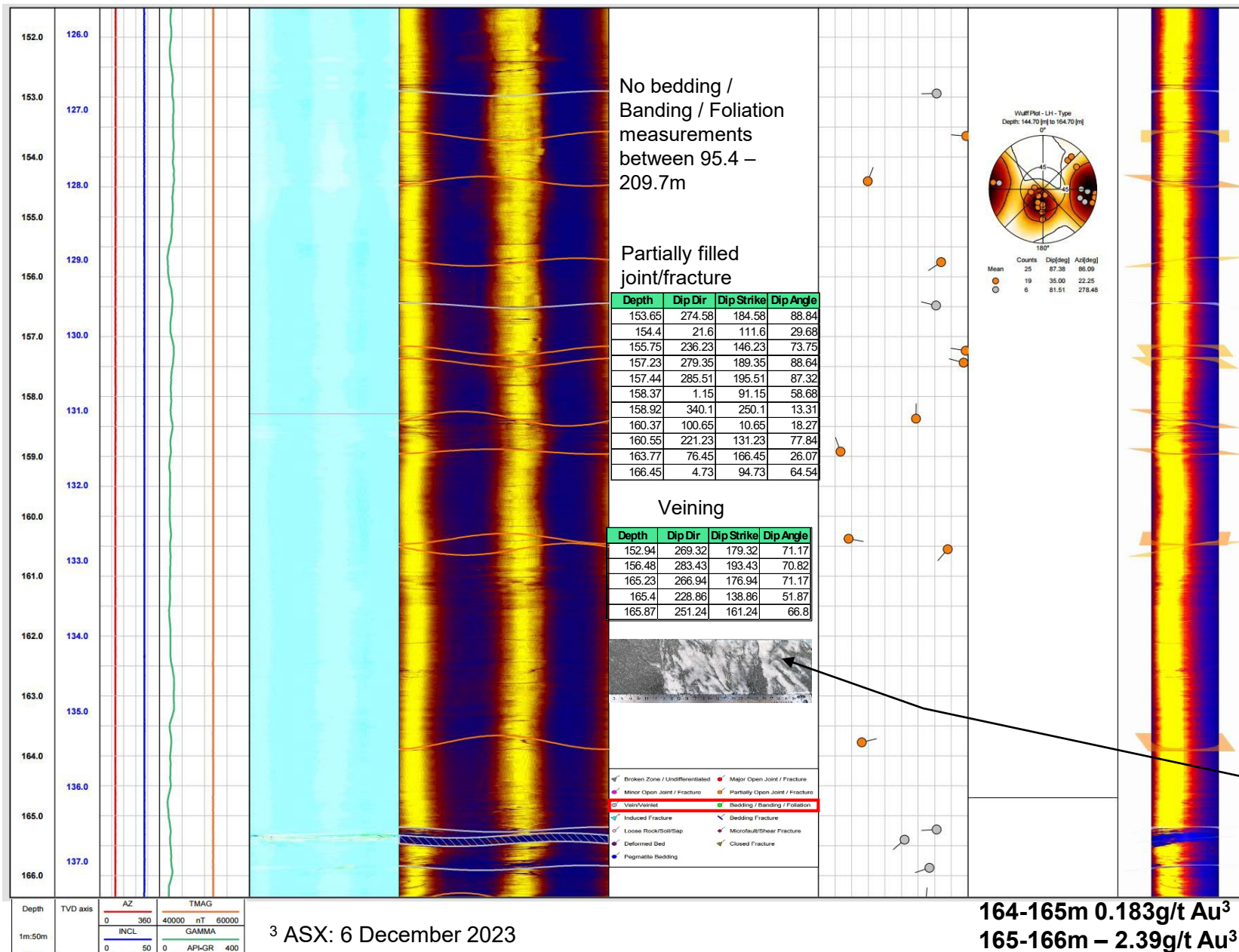


164.7-164.9m  
164.4-165m – 0.18 g/t Au)<sup>3</sup>





# Drill Hole TGRD2301 - 152 – 166m

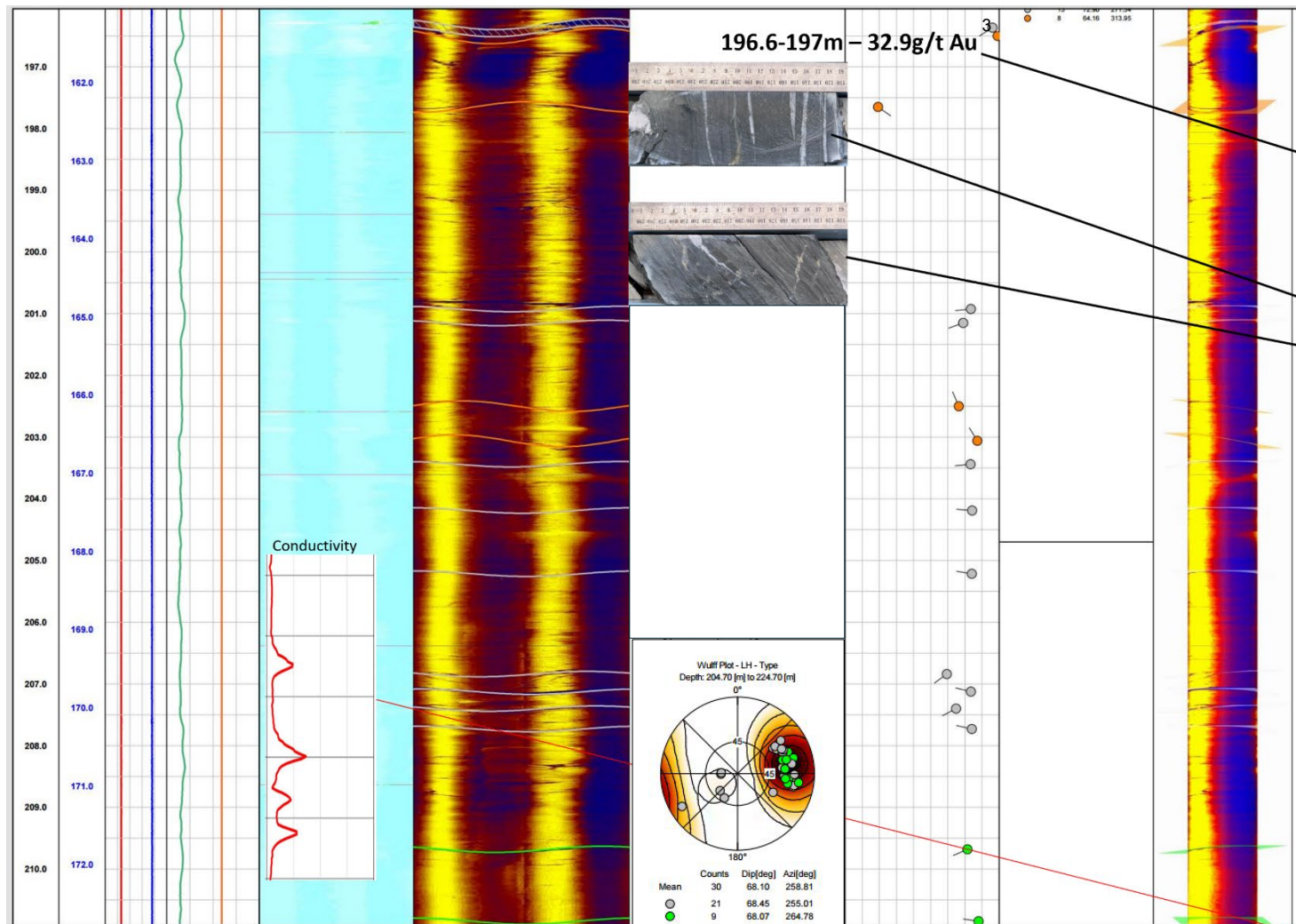


164-165m 0.183g/t Au<sup>3</sup>  
165-166m – 2.39g/t Au<sup>3</sup>





# Drill Hole TGRD2301 - 196 – 210m



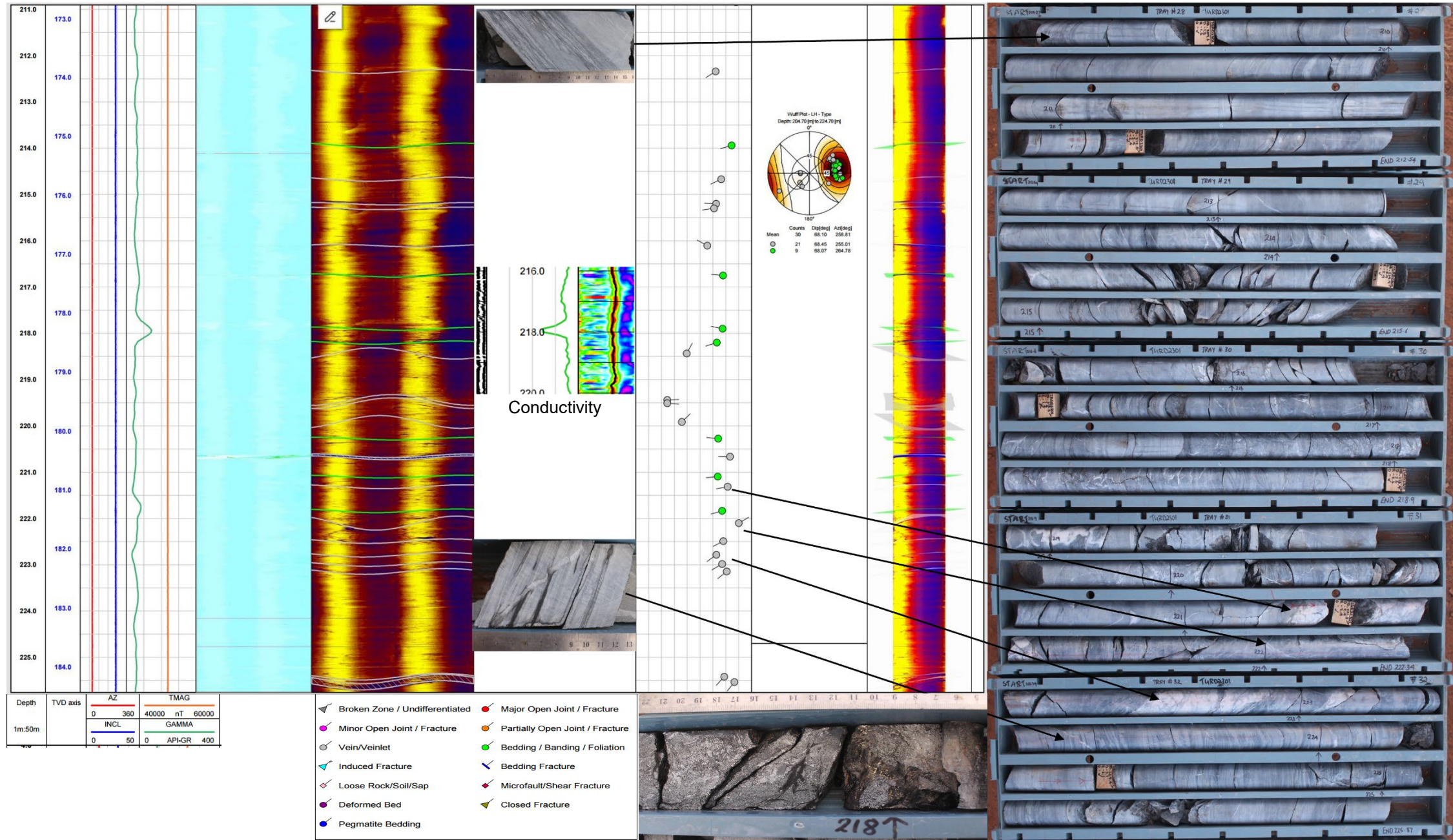
- Fractured zone @ 196.4m
- Best intersection hosted in massive quartz vein
- Not detected by downhole data
- Conductivity plot showed narrow carbonaceous zones
- Stereoplot show most veins dip ~70° to the west – mostly bedding parallel veins

Depth	Dip Dir	Dip Strike	Dip Angle
196.36	237.69	147.69	85.97
200.92	264.64	174.64	73.41
201.15	250.27	160.27	69.02
203.44	264.34	174.34	73.26
204.19	275.1	185.1	74.11
205.22	279.55	189.55	73.96
206.84	234.02	144.02	59.36
207.12	283.42	193.42	73.51
207.4	242.01	152.01	64.87
207.73	282.3	192.3	74.02





# Drill Hole TGRD2301 – 211-225m

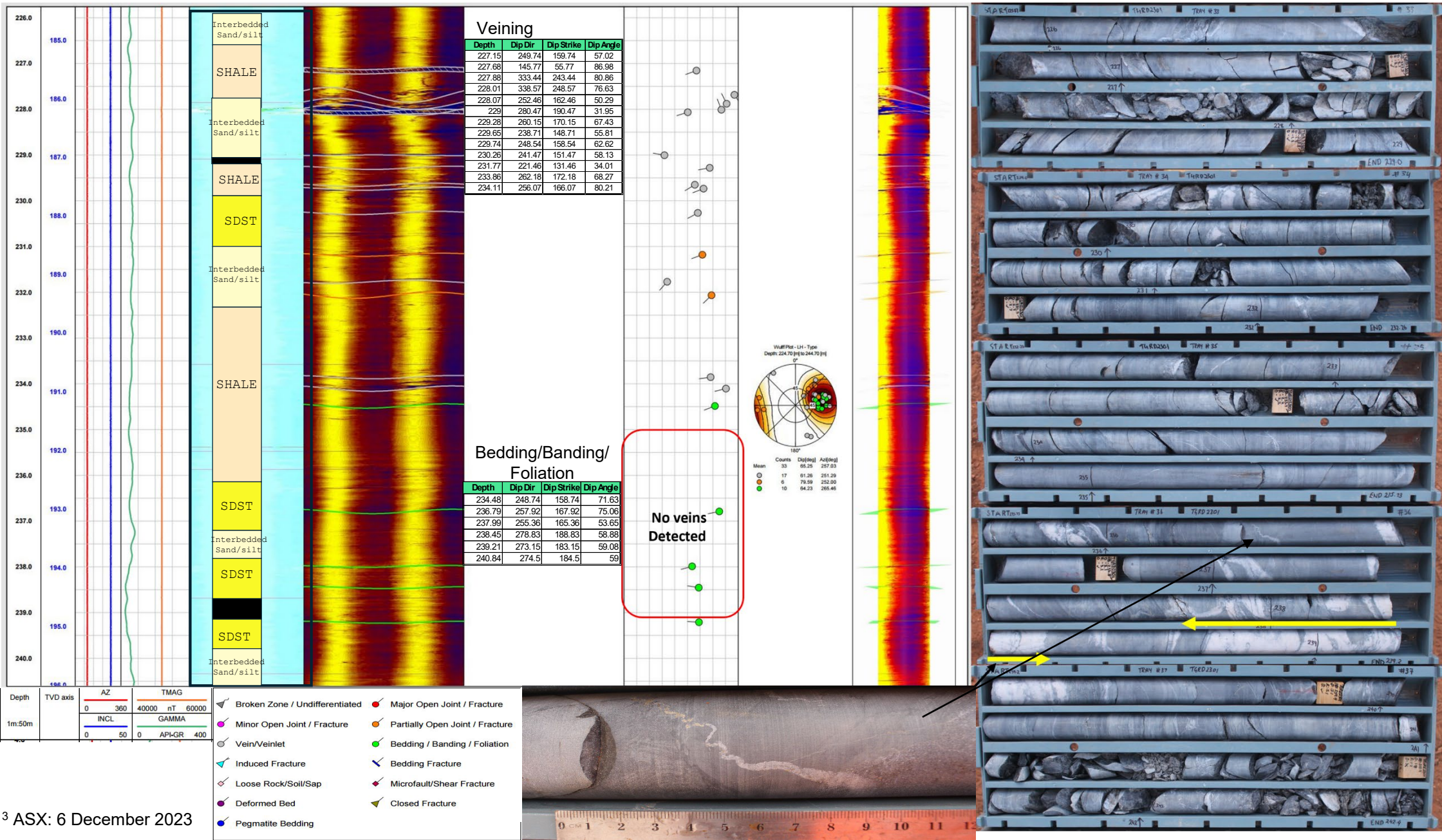


- No significant intersections
- Conductivity & gamma plot showed narrow carbonaceous & pyrite breccia zone @ 218m
- Stereoplot show veins and bedding dip ~65° to the west
- Some veins discordant to bedding – but no significant mineralisation

Depth	Dip Dir	Dip Strike	Dip Angle
212.34	237.64	147.64	62.05
214.67	244.57	154.57	66.46
215.2	272.16	182.16	62.48
215.3	262.27	172.27	60.76
216.1	298.11	208.11	55.58
218.44	28.52	118.52	39.68
219.44	87.36	177.36	24.49
219.51	94.04	4.04	24.49
219.92	45.54	135.54	35.74
220.67	270.96	180.96	73.22
221.32	259.69	169.69	71.37
222.1	59.4	149.4	80.13
222.49	242.12	152.12	67.98
222.79	233.92	143.92	62.61
222.99	240.61	150.61	67.1
223.14	232.14	142.14	70.83
225.42	223.01	133.01	68.82
225.54	218.4	128.4	76.74



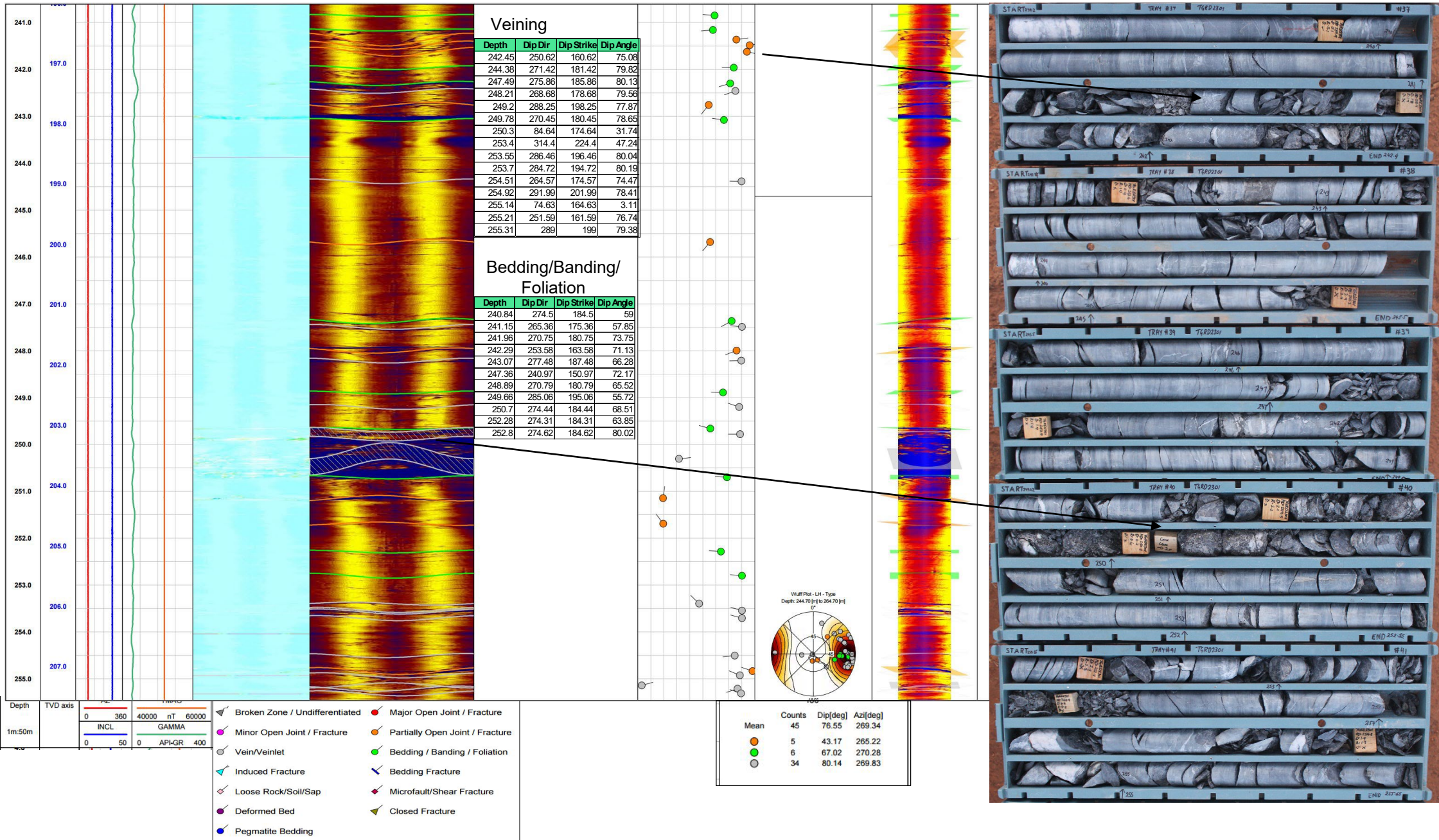
# Drill Hole TGRD2301 - 226-240m



- Zone of broken core 228m – downhole data shows numerous veins
- Stereoplot show veins and bedding dip ~63° to the west (bedding parallel)
- Some veins discordant to bedding – but no significant mineralisation
- Best intersection 0.7m @ 1.21g/t Au (237.8-238.5m)<sup>3</sup>
- Zone of massive quartz not detected



# Drill Hole TGRD2301 - 241-255m

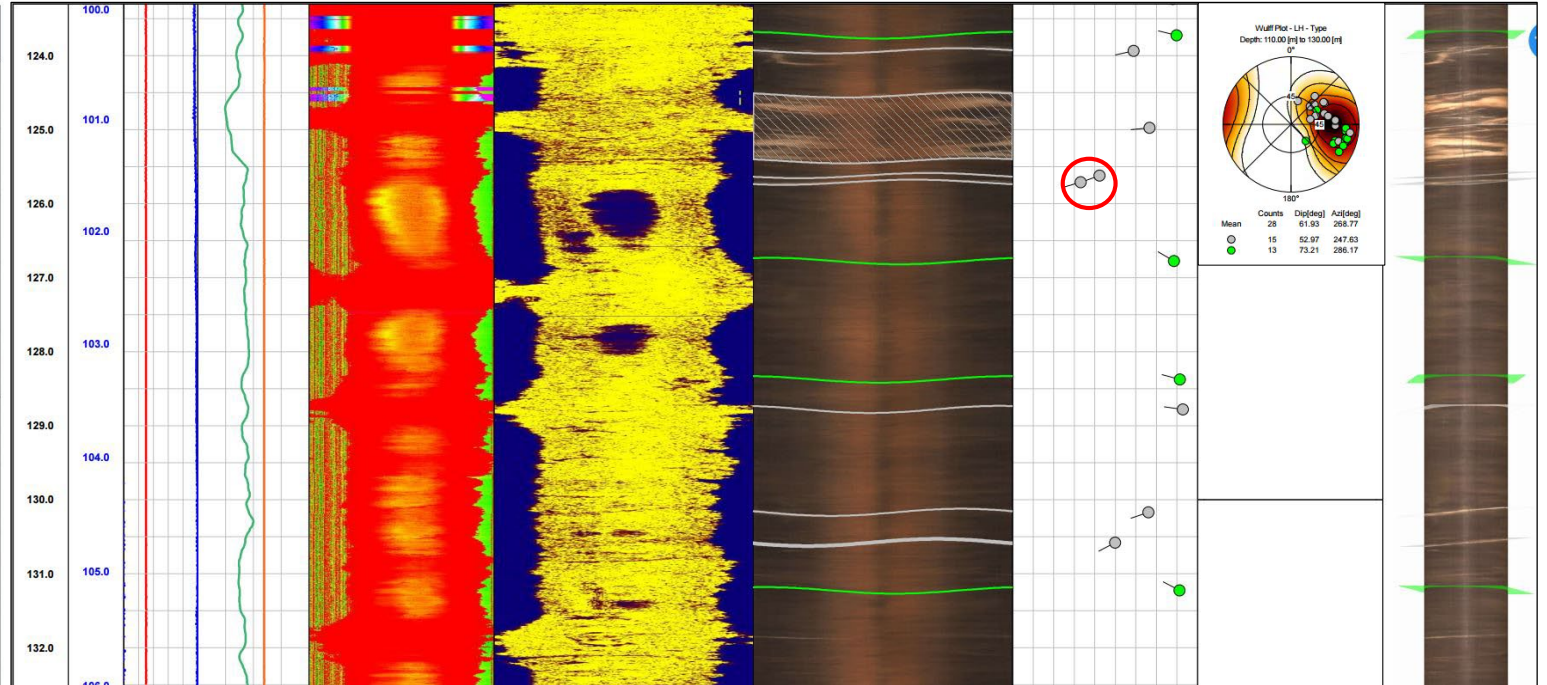
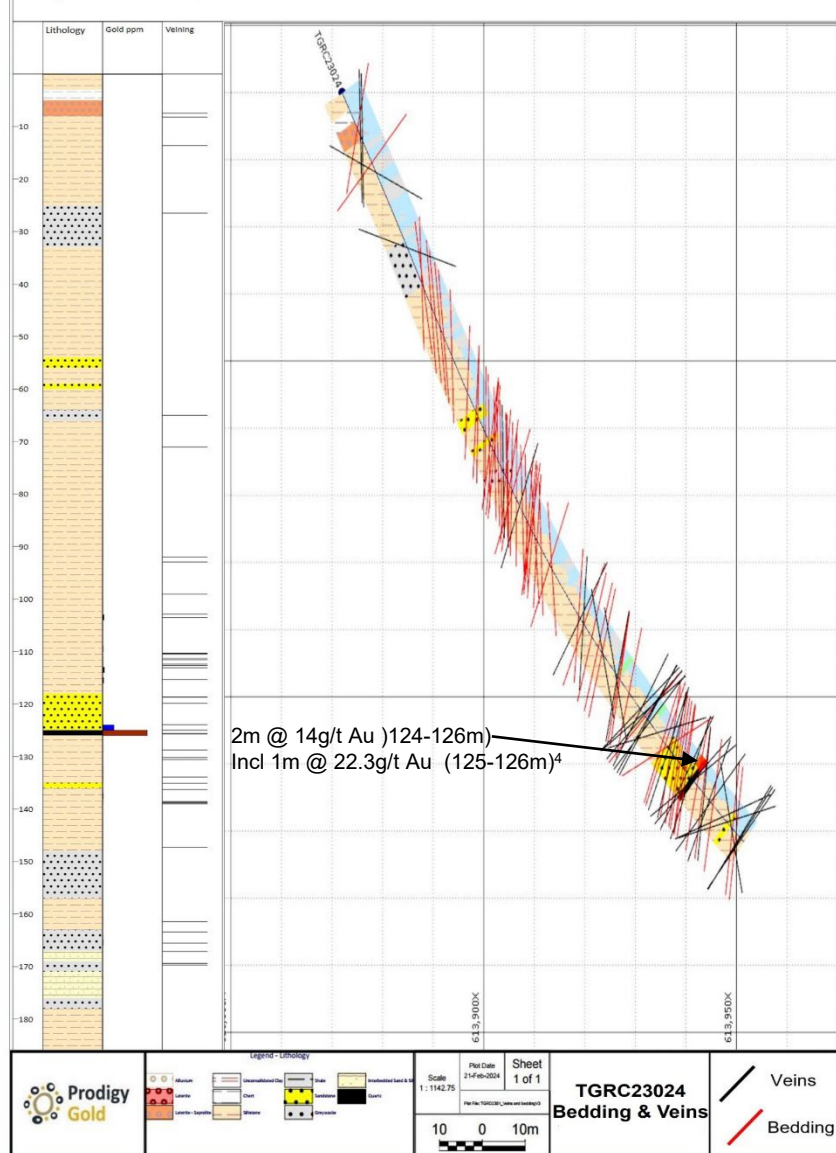


- Fracture zone ~241.5m
- Prominent breccia zone ~250m – with small zone of core loss – Suplejack Fault?
- Bedding dips between moderately to the WSW
- Veining mostly steeper dips to the WSW to west with rare east dipping veins

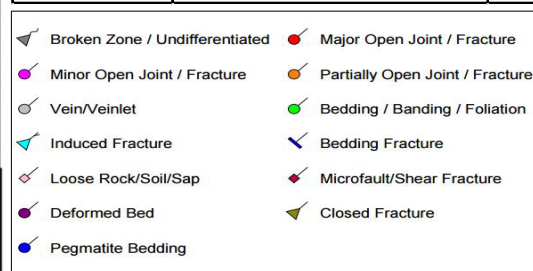


# RC Drill Hole TGRC23024

Graphic Drill Log - TGRC23024



HoleID	Feature	Measured Depth	Dip Direction	Dip Strike	Dip Angle
TGRC23024	Vein	125.62	250.65	160.65	42.27
TGRC23024	Vein	125.71	253.92	163.92	33.13
TGRC23024	Bedding/Banding/Foliation	123.73	284.01	194.01	79.79
TGRC23024	Bedding/Banding/Foliation	126.78	299.84	209.84	78.55



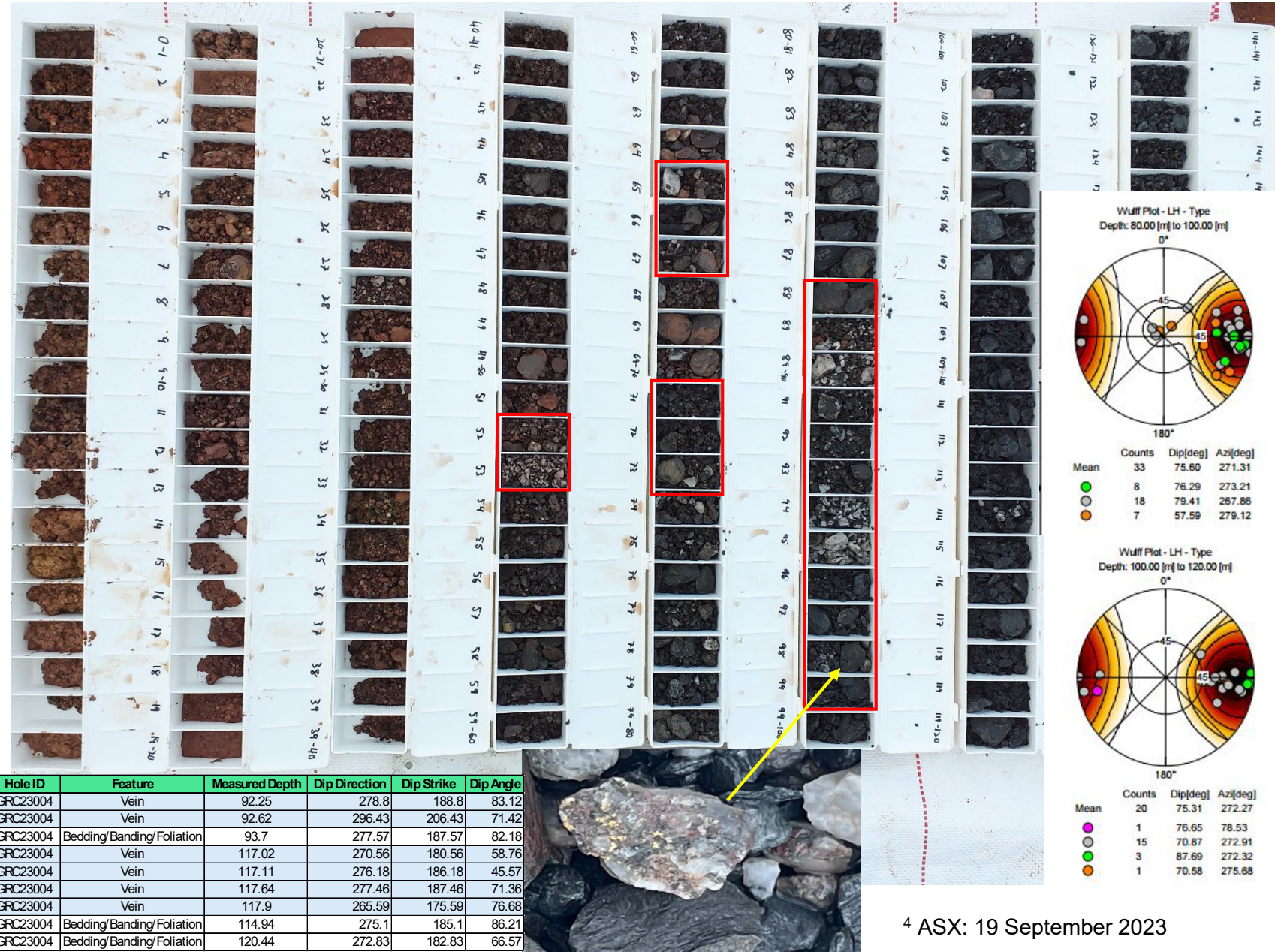
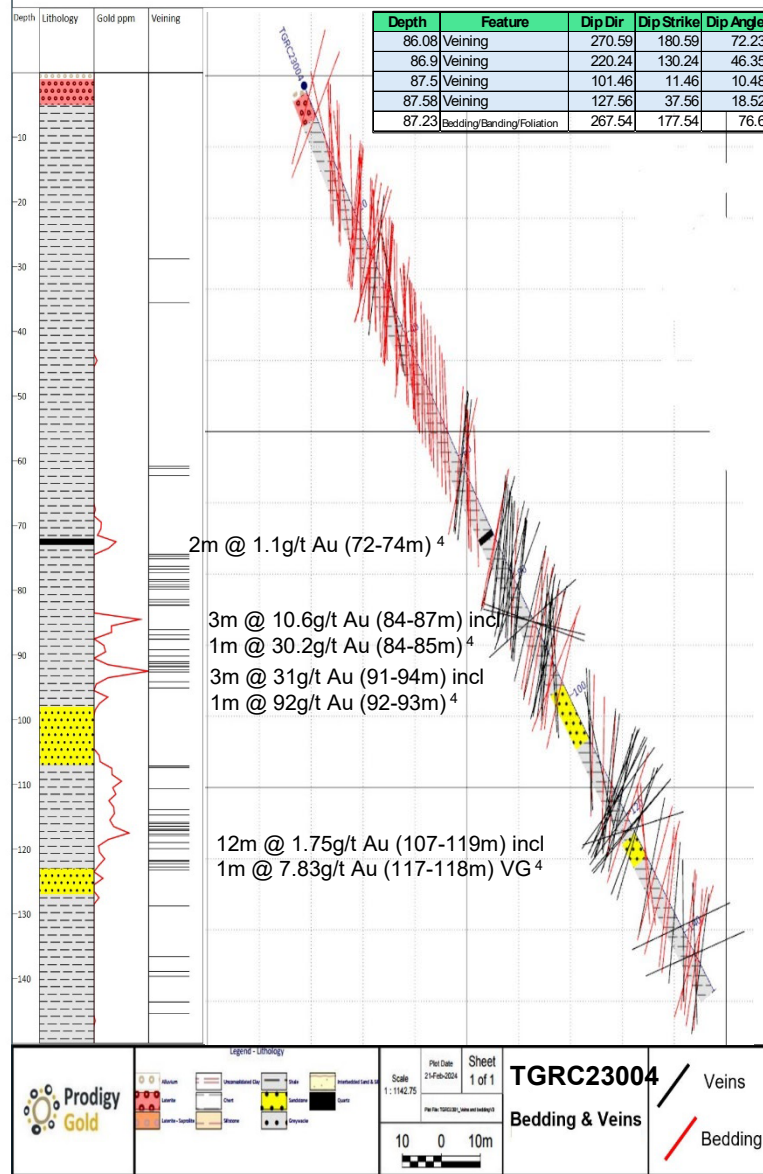
## TGRC23024

- Significant intersection 2m @ 14g/t Au
- Stereoplot show veins dip ~between 42° & 33° to the WSW and bedding dip ~79° to the WNW
- veins discordant to bedding
- Bedding consistent downhole – dips steeply to the West



# RC Drill Hole TGRC23004

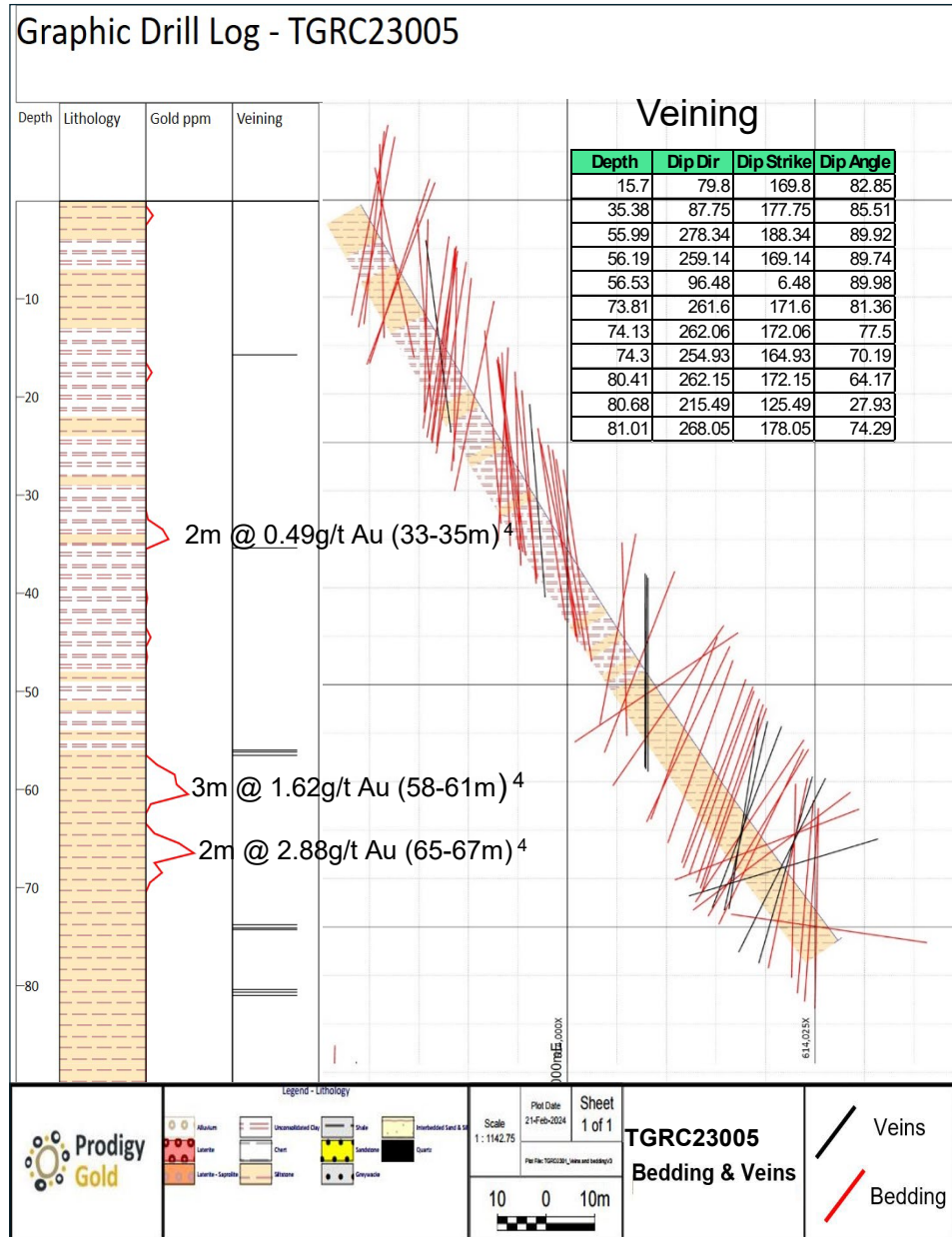
Graphic Drill Log - TGRC23004





# RC Drill Hole TGRC23005

Bedding/Banding/  
Foliation



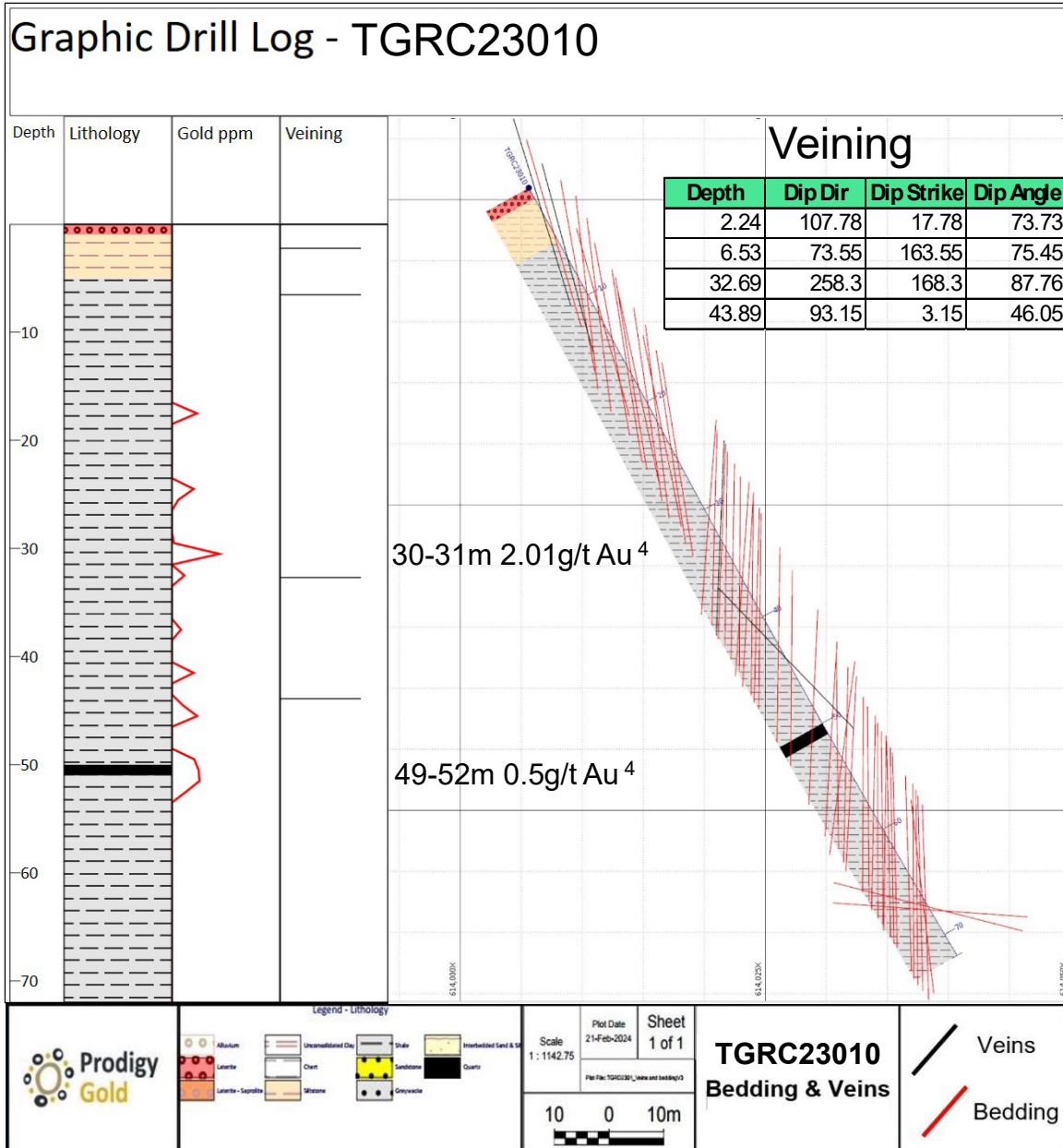
- Bedding changes downhole with zones dipping eastward to westward.
- Bedding dip shallows with depth then steepens again
- Zone of mineralisation/quartz veining – not detected by downhole survey

<sup>4</sup> ASX: 19 September 2023

Depth	Dip Dir	Dip Strike	Dip Angle
1.84	264.15	174.15	79.49
2.73	249.82	159.82	84.47
3.24	271.35	181.35	79.43
4.31	95.27	5.27	88.69
6.87	97.02	7.02	78.67
7.91	269.24	179.24	72.32
8.18	257.12	167.12	70.35
12.87	69.43	159.43	86.11
13.26	263.2	173.2	89.01
15.22	262.92	172.92	82.54
16.35	261.53	171.53	81.56
16.63	266.94	176.94	83.1
16.96	274.82	184.82	82.65
17.26	264.76	174.76	84.52
18.24	244.42	154.42	82.14
19.04	271.49	181.49	89.18
20.26	272.63	182.63	84.29
22.84	278.73	188.73	78.66
26.55	87.59	177.59	85.28
28.6	278.9	188.9	87.18
29.21	81.98	171.98	87.62
29.68	66.88	156.88	84.4
29.96	87.74	177.74	82.53
30.46	83.48	173.48	82.33
31.53	92.66	2.66	88.37
33.22	74.27	164.27	84.08
33.72	91.11	1.11	85.85
38.21	89.92	179.92	82.03
39.94	92.04	2.04	78.69
40.23	95.54	5.54	81.95
40.82	71.08	161.08	83.14
41.91	81.04	171.04	81.61
43.2	88.11	178.11	81.76
50.92	291.53	201.53	80.28
52.15	89.16	179.16	88.63
54.96	274.7	184.7	69.28
58.09	268.51	178.51	34.35
60.32	284.27	194.27	56.71
63.14	266.88	176.88	70.44
63.89	291.17	201.17	66.6
66.07	263.68	173.68	70.89
68.49	268.5	178.5	71.16
69.27	285.14	195.14	70.05
69.9	267.08	177.08	70.96
70.98	266.43	176.43	71.47
71.67	266.47	176.47	71.48
72.11	263.98	173.98	71.13
74.79	285.4	195.4	57.76
76.28	278.35	188.35	59.76
76.79	270.44	180.44	64.67
77.78	250.05	160.05	22.66
78.62	233.8	143.8	43.49
81.42	266.66	176.66	78.6
82.4	261.4	171.4	88.87
84.42	265.16	175.16	85.39
85.47	271.93	181.93	86.01
86.34	275.04	185.04	88.99



# RC Drill Hole TGRC23010



- Only 4 veins detected by downhole survey
- Major quartz vein at 50-51m not detected (same as diamond hole)
- Bedding changes downhole with zones dipping eastward to westward.
- Bedding:
  - 0-25m dips steeply to the east
  - 25-EOH – bedding dips steeply to the west

<sup>4</sup> ASX: 19 September 2023

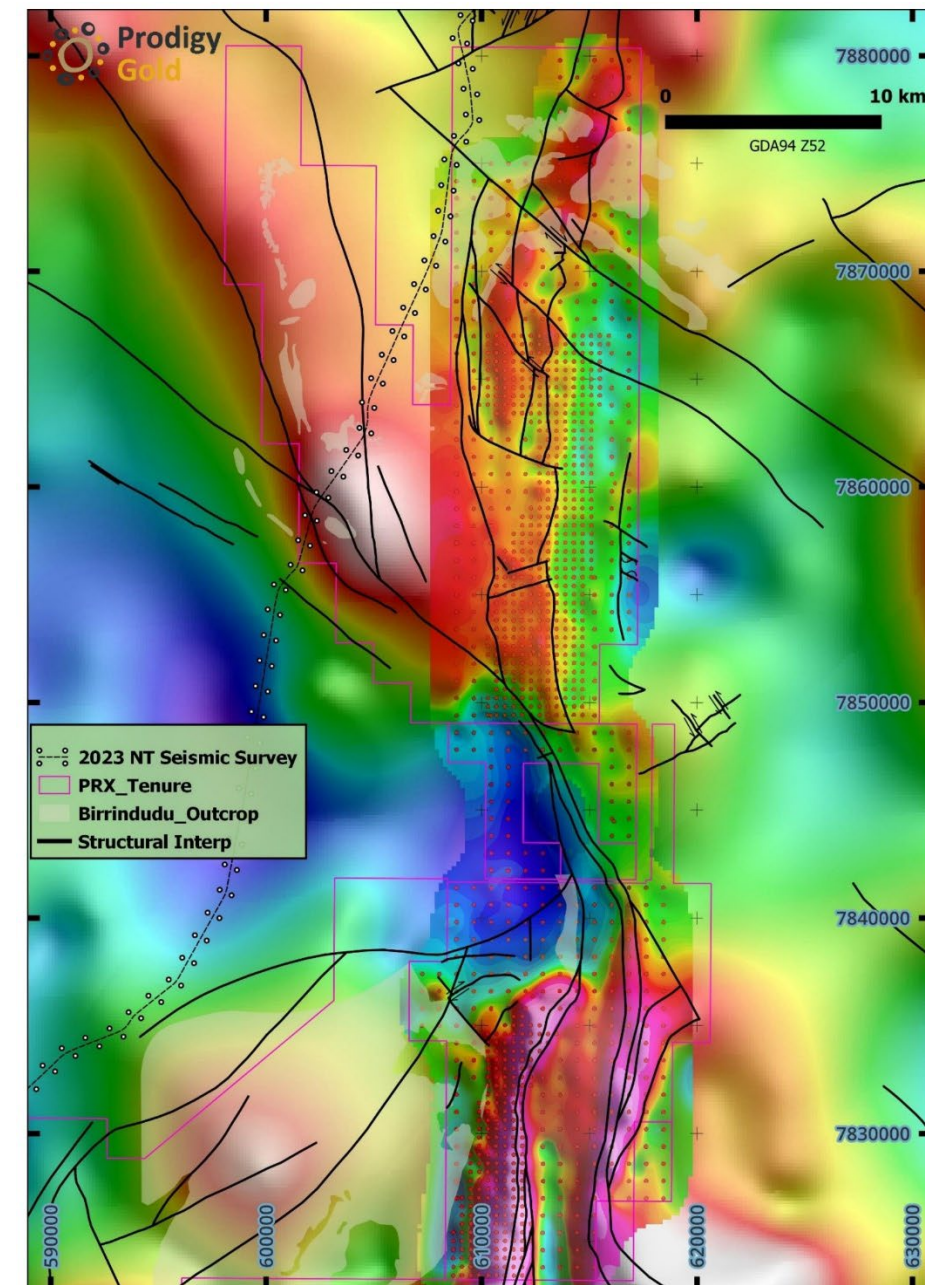




# Summary/Conclusions

*Fresh geophysical findings unlock potential on the Tanami North Project.*

- Tanami North gravity survey has provided another high-quality dataset (complementing the aeromagnetic data)
- The Tanami North gravity survey will greatly assist in determining the southern boundary of the thick overlying Suplejack Downs Sandstone to the north of the Boco prospect
- The new gravity data may open up opportunities in the Hyperion area where the gravity data seems to be better than the aeromagnetic data at highlighting potential alteration and/or mineralised zones
- The downhole wireline survey has greatly increased Prodigy's understanding of the Tregony Deposit
- Downhole logging of RC drillholes at Tregony has provided important structural data, which will be included in future drill hole planning and with an updated resource model







# Contact me for further information

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## Prodigy Gold







# Prodigy Gold Hyperion Resource Summary

Hyperion Project – Mineral Resource Estimate July 2018									
Material Type	Tonnes (Mt)	Grade (Au g/t)	Metal (Koz)	Tonnes (Mt)	Grade (Au g/t)	Metal (Koz)	Tonnes (Mt)	Grade (Au g/t)	Metal (Koz)
	Indicated			Inferred			Total		
Oxide	0.04	1.4	2	0.37	2.2	26	0.41	2.1	28
Transitional	0.27	1.8	16	1.2	2.1	80	1.5	2.0	96
Fresh	0.58	2.6	49	2.0	2.2	142	2.6	2.3	191
Total	0.89	2.3	66	3.6	2.2	248	4.4	2.2	314

Reported above 0.7g/t Au cut-off and above Whittle generated shell (previously constrained to 230mRL). Resources may not sum to equal totals due to rounding. The Mineral Resource estimate was first reported in 2018 (ASX: 31 July 2018). This estimates varies immaterially due to the use of a whittle generated open pit shell to constrain the Mineral Resource and a change in lower cut-off grade from 0.8g/t to 0.7g/t Au.

## Competent Person Statement for Resources

The information in this report that relating to Mineral Resource for Hyperion (previously called Suplejack) was originally released to the ASX on the 31 July 2018 – Suplejack Resource Update (and then restated 15 August 2023). These documents can be found at [www.asx.com.au](http://www.asx.com.au) (Stock Code: PRX) and at [www.prodigygold.com.au](http://www.prodigygold.com.au). The 31 July 2018 release fairly represents data, geological modelling, grade estimation and Mineral Resource estimates reviewed by Mr. Mark Edwards who is a fellow of the Australasian Institute of Mining and Metallurgy. This Mineral Resource has been re-stated as of 15 August 2023 in the Annual Mineral Resource Statement for Prodigy Gold. At the time of the 15 August 2023 release Mr. Edwards was a full-time employee of Prodigy Gold. Mr. Edwards has provided written consent for the 15 August 2023 release.