ADR

ATOMIC DIELECTRIC RESONANCE SPECTROSCOPY

Mr Gordon Stove

RESULTS

Dr Simon Richards

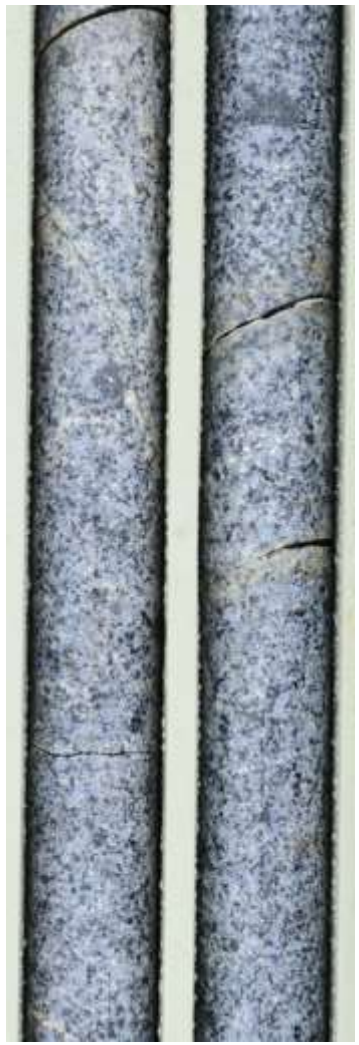
THE PROBLEM

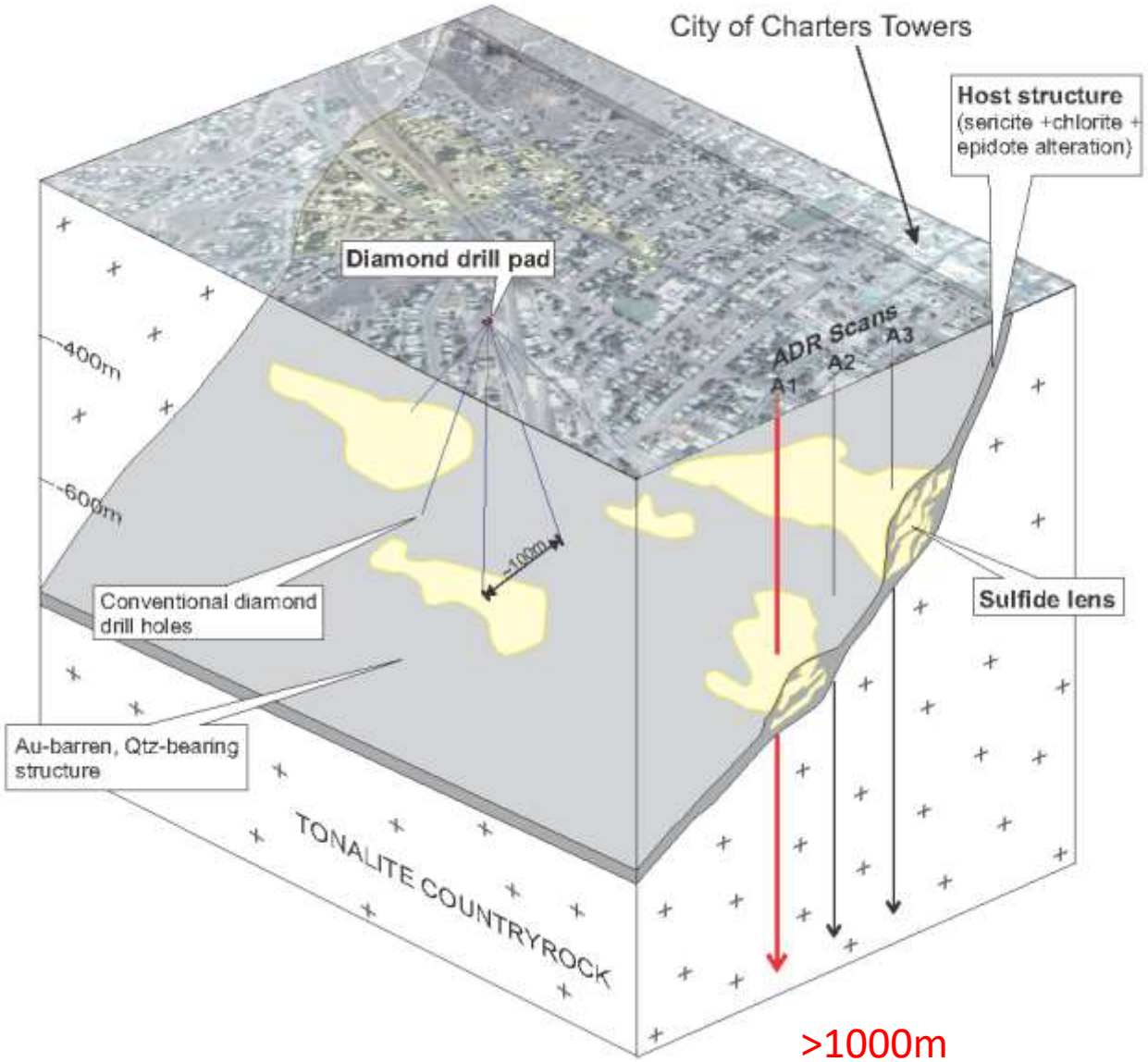
TO FIND A COST EFFICTIVE, RELIABLE, PRECISE AND ACCURATE WAY OF PINPOINTING "PODS" OF HIGH GRADE GOLD AND SULFIDE ORE

CHARTERS TOWERS

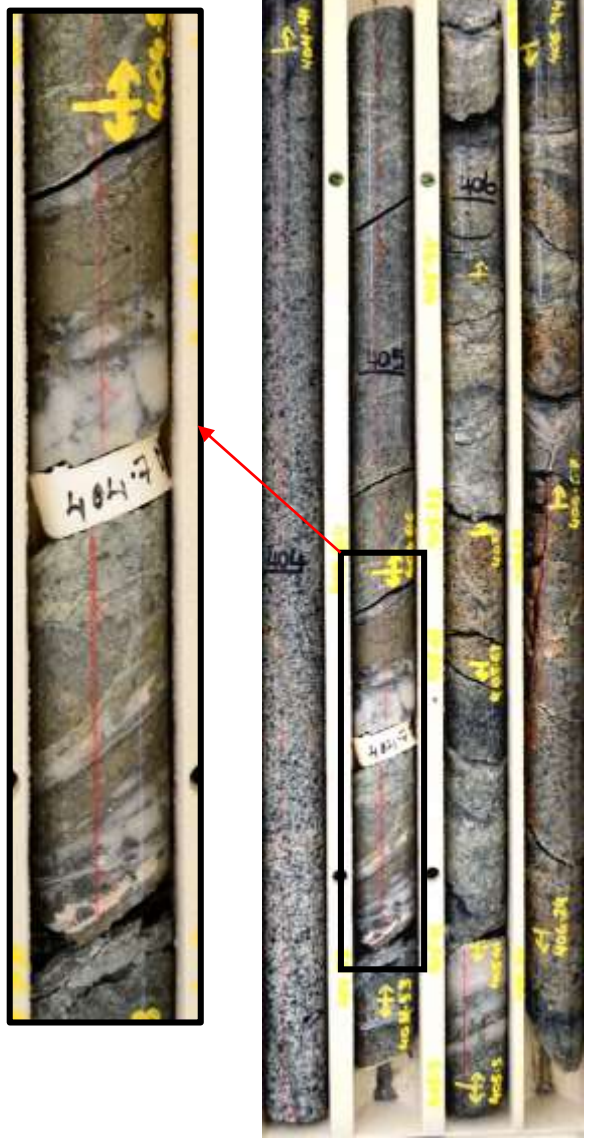
DEPOSIT STYLE

Tonalite host rocks



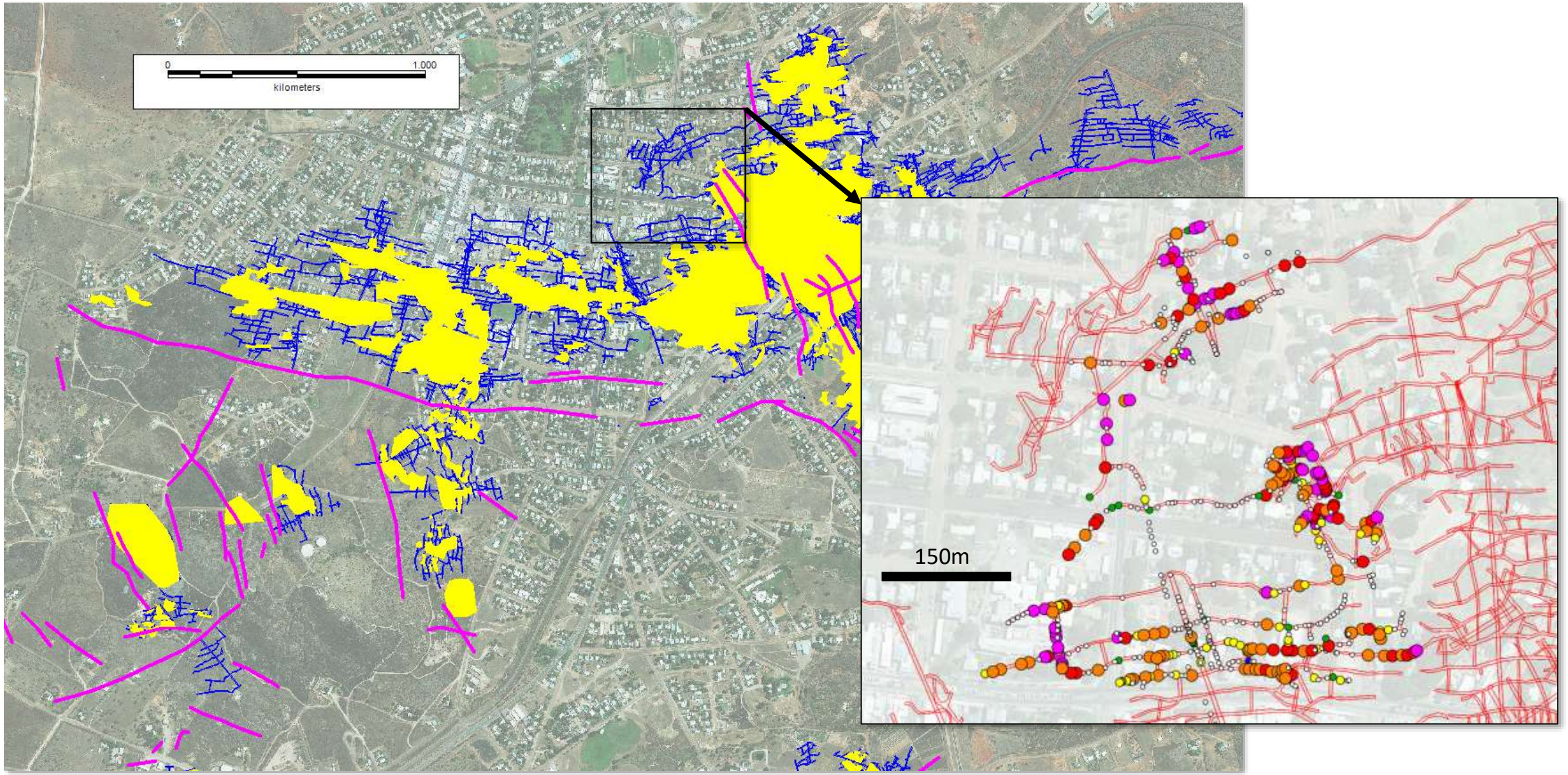


>1000m



THE PROBLEM

GEOLOGY



THE PROBLEM

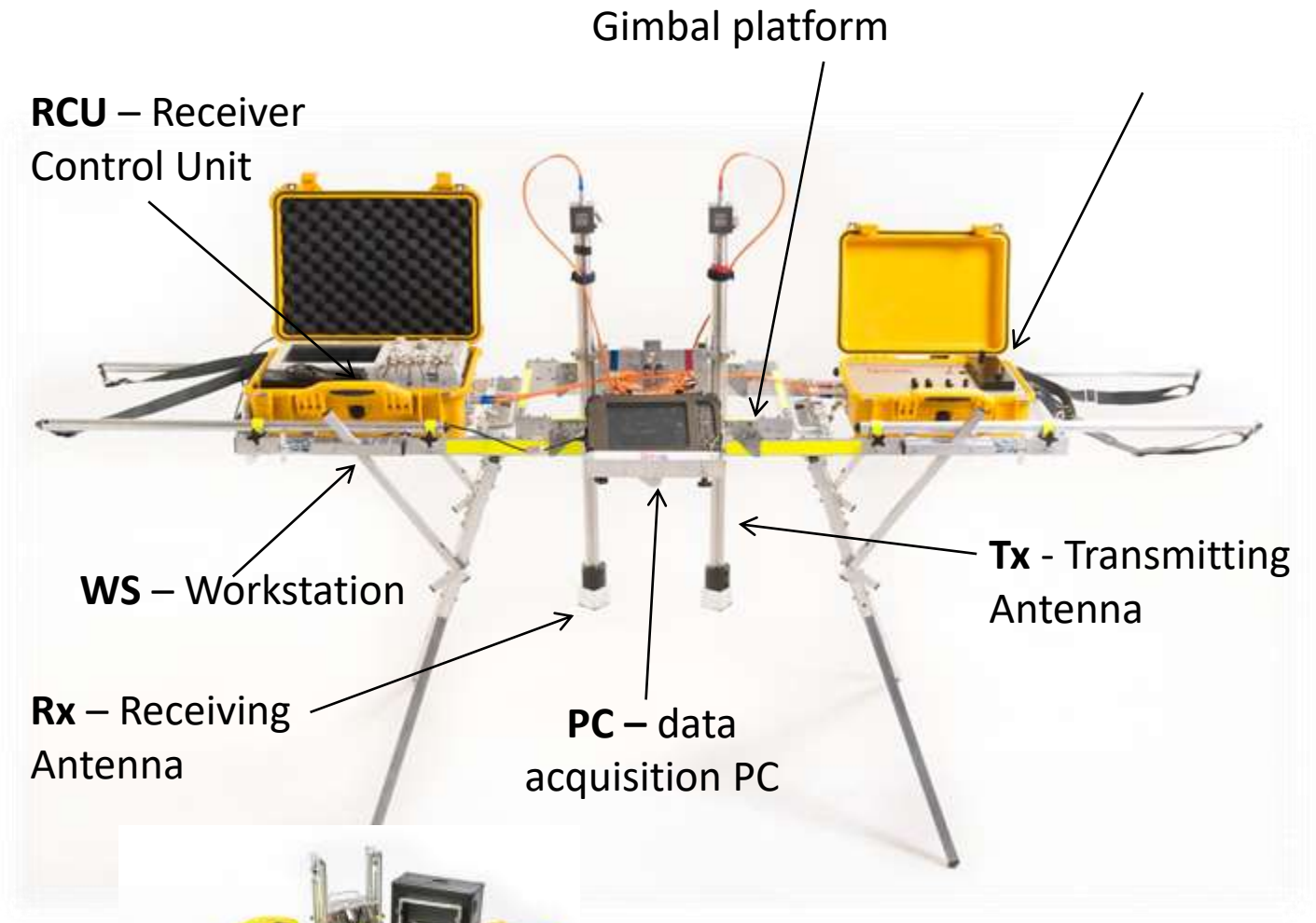
TECHNICAL

- **LOCATED IN THE MIDDLE OF A CITY**
  - **DRILLING (NOISE, CLEARING PADS, LOCATIONS UNAVAILABLE, DEEP DRILL HOLES, COST)**
  - **TEM & SEM, MAGNETICS, GRAVITY and IP & DHIP** (size & depth of gold-bearing pods)

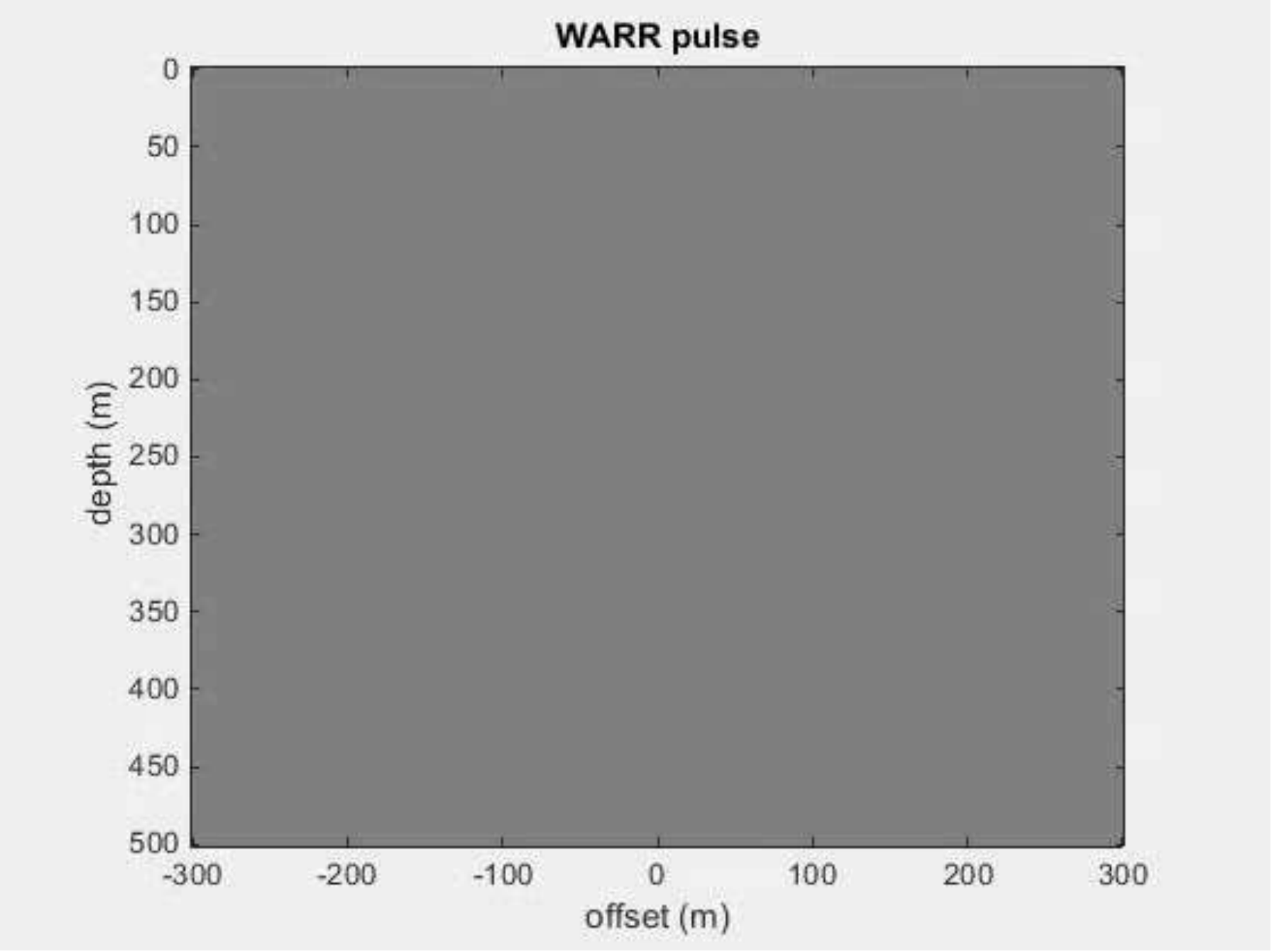
- **TIME AND COST ARE EXCESSIVE**
  - **15M/DAY, $130/M, average 500m deep holes, 20 drill holes for 6 positive returns = $1.3 million and over 2 years of drilling.**

THE SETUP

FIELD & LAB



THE MODEL RESULTS

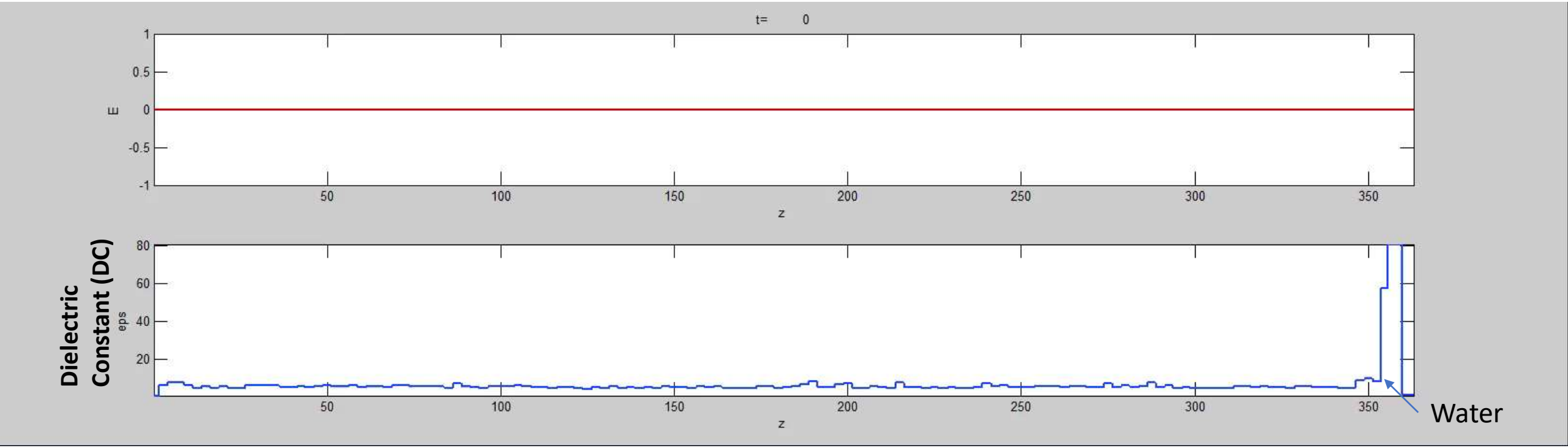


- LINE OF TRANSMITTERS IN WARR CREATES BEAM (SYNTHETIC APERTURE RADAR, SAR)
- NOTE: IN ANIMATION PULSE WAVELET STAYS COHERENT

THE MODEL RESULTS

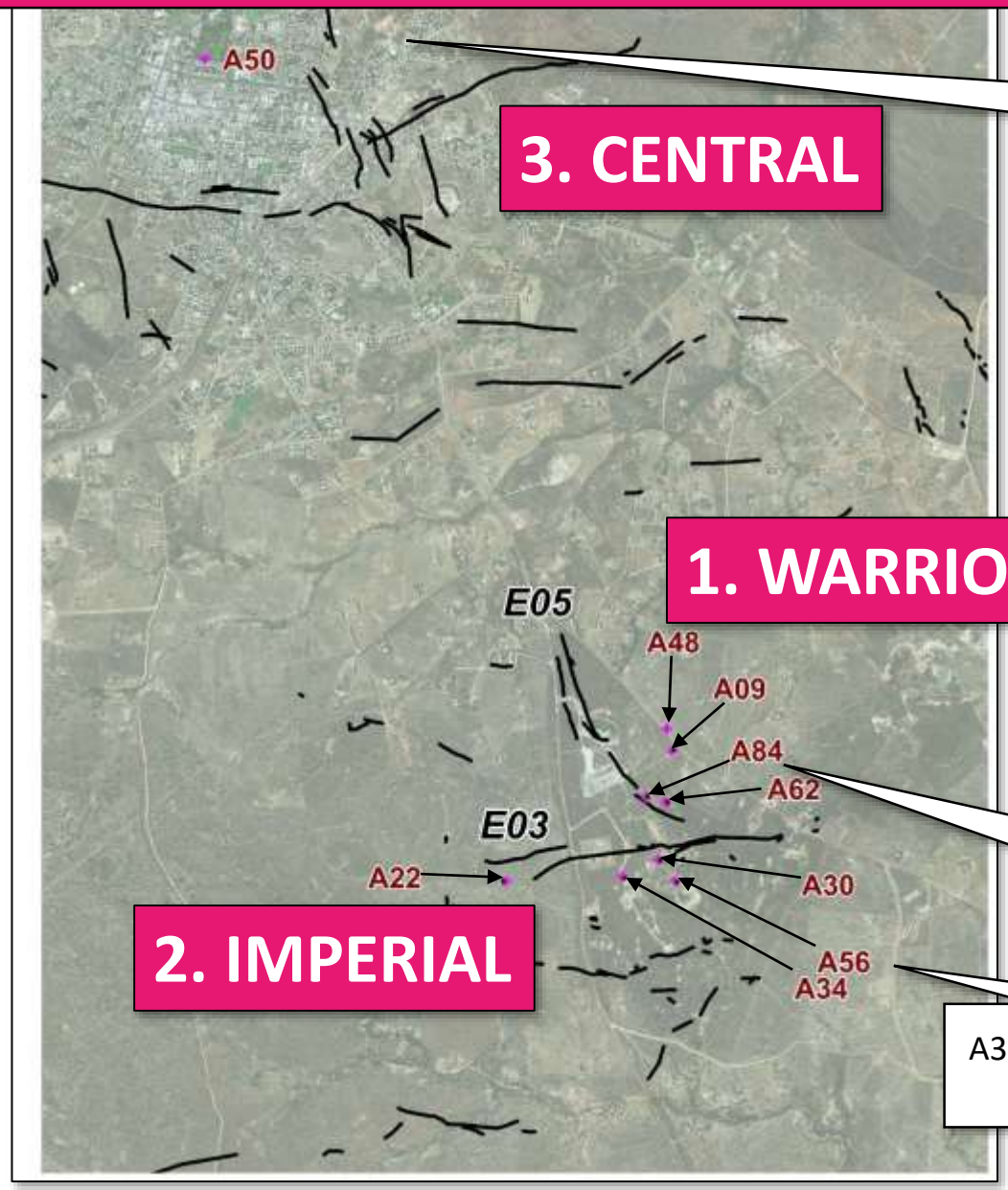
- **ELECTRIC FIELD ANIMATED IN TOP GRAPH**
  - **WE OBSERVE PULSE TRAVELING DOWN (LEFT TO RIGHT)**
  - **SMALL IRREGULARITIES IN DC CAUSE BACKSCATTER**
  - **BIG REFLECTION AT JUMP IN DC - PROPAGATES BACK TO SURFACE**

Lab measured DC of Charters Towers Rocks (CSIRO)
Granite av; 3 samples = 7.99 @ 1Mhz
Pyrite ore; 1sample = 73.63 @ 1Mhz



REAL WORLD RESULTS

NARROW VEIN GOLD



A63 targeting C05 – Brilliant East

A84 and A62 targeting N-dipping **E03** structure

A30, **A56**, A34 and A22 targeting NE-dipping **E07** structure

ADR SCAN LOCATION SELECTION

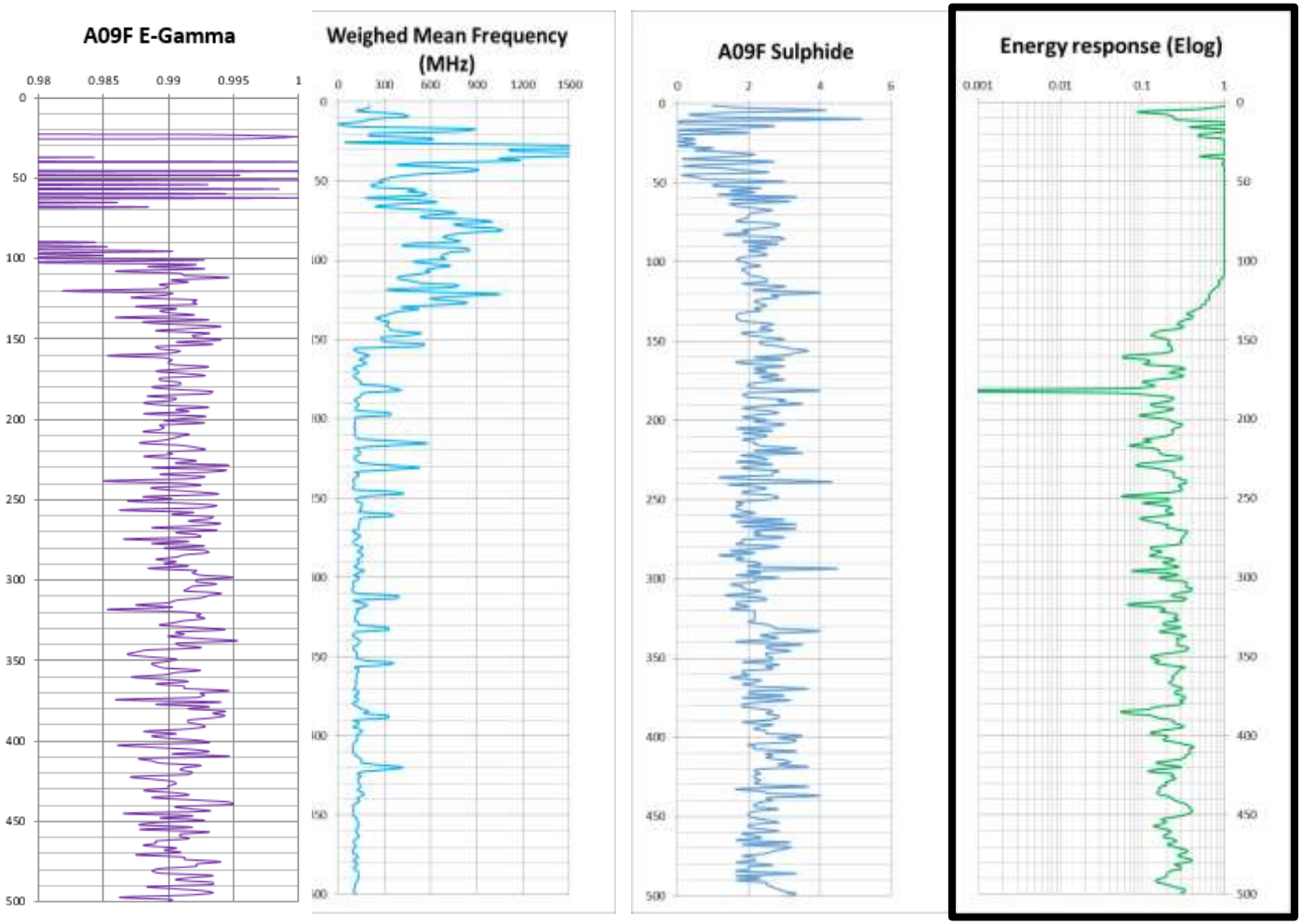
A84 – WARRIOR

A56 – IMPERIAL

A63 – CENTRAL

REAL WORLD RESULTS

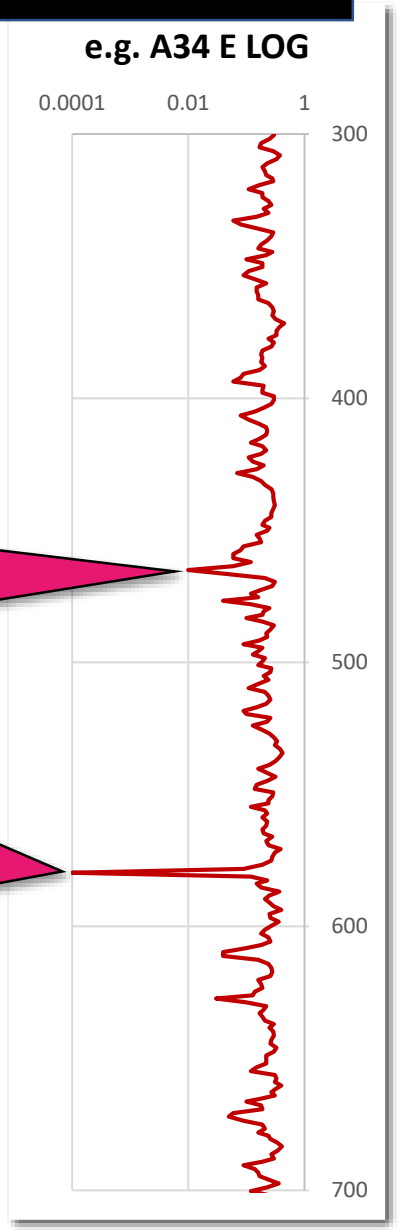
SCAN INTERPRETATION



Lowest value assigned a value of 0.001 resulting in artificial exaggeration of apparent anomaly when plotted

0.01 considered "anomalous and significant"

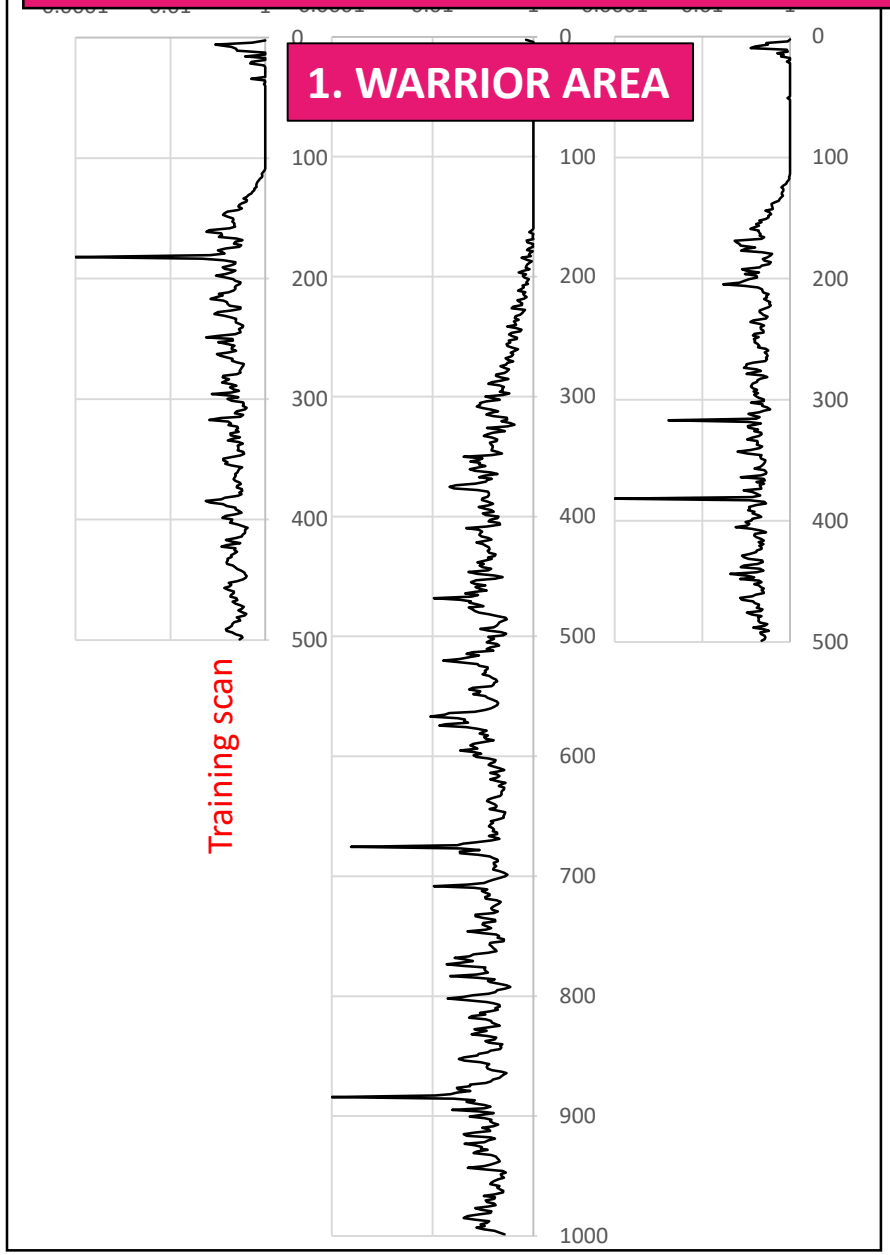
Lowest value(s) considered major anomalies



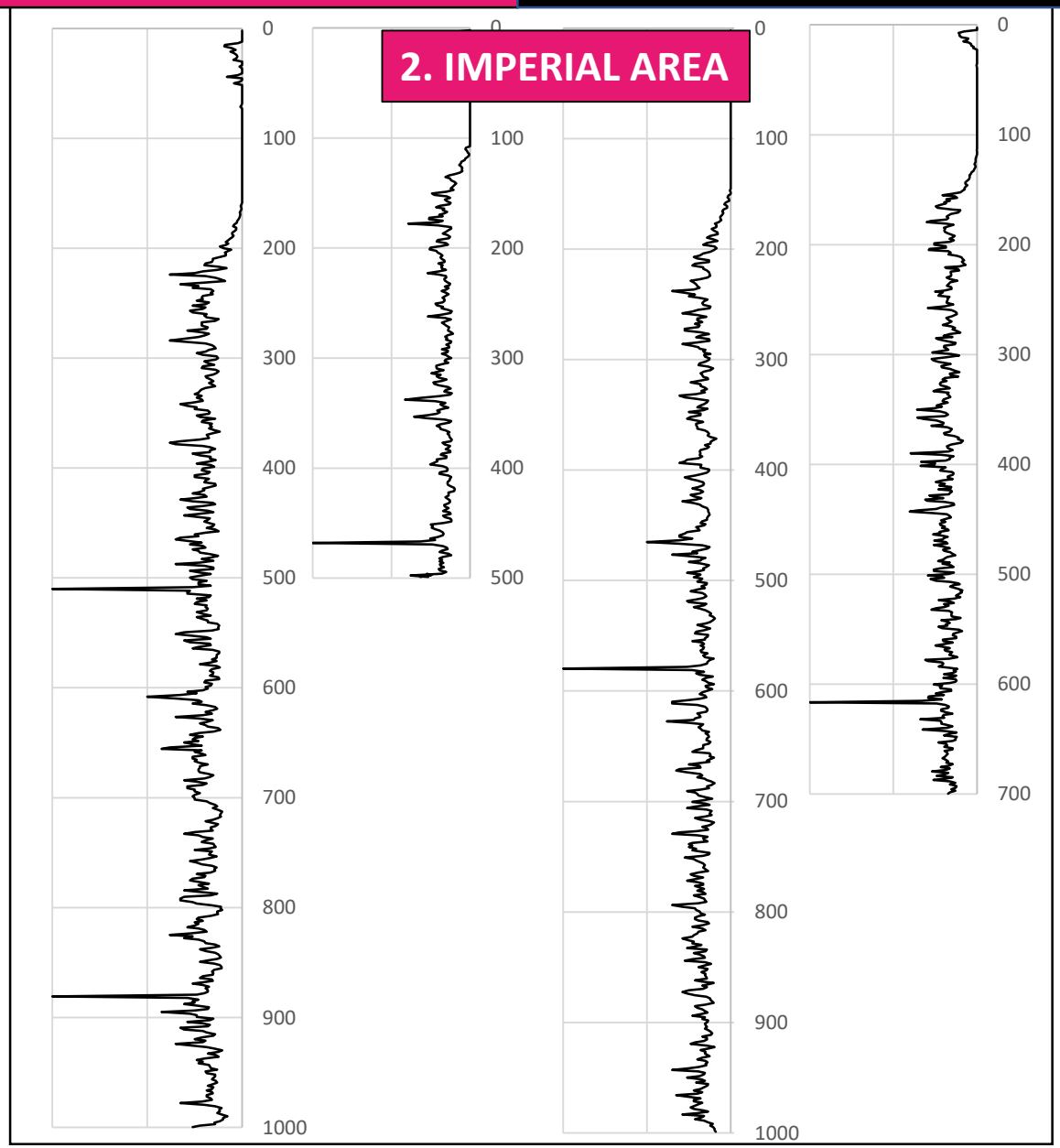
REAL WORLD RESULTS

SCANS

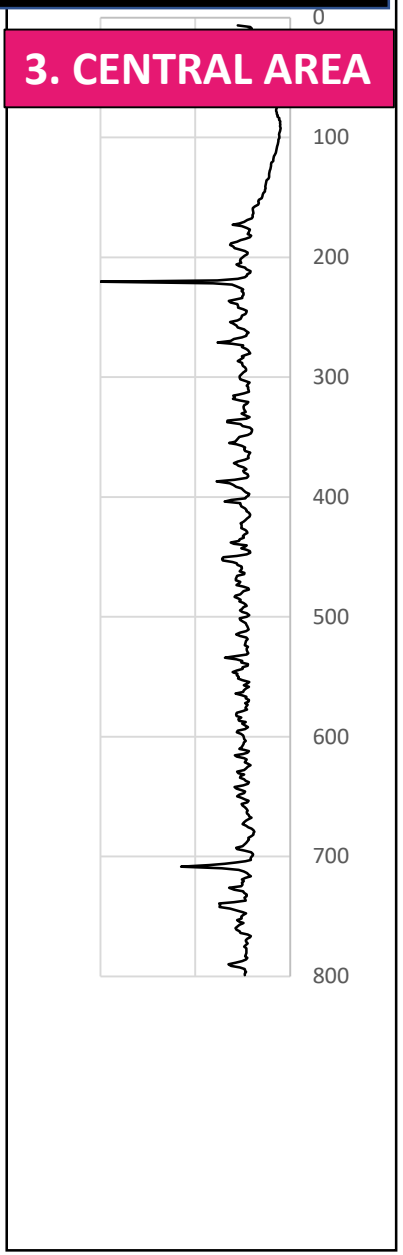
1. WARRIOR AREA



2. IMPERIAL AREA

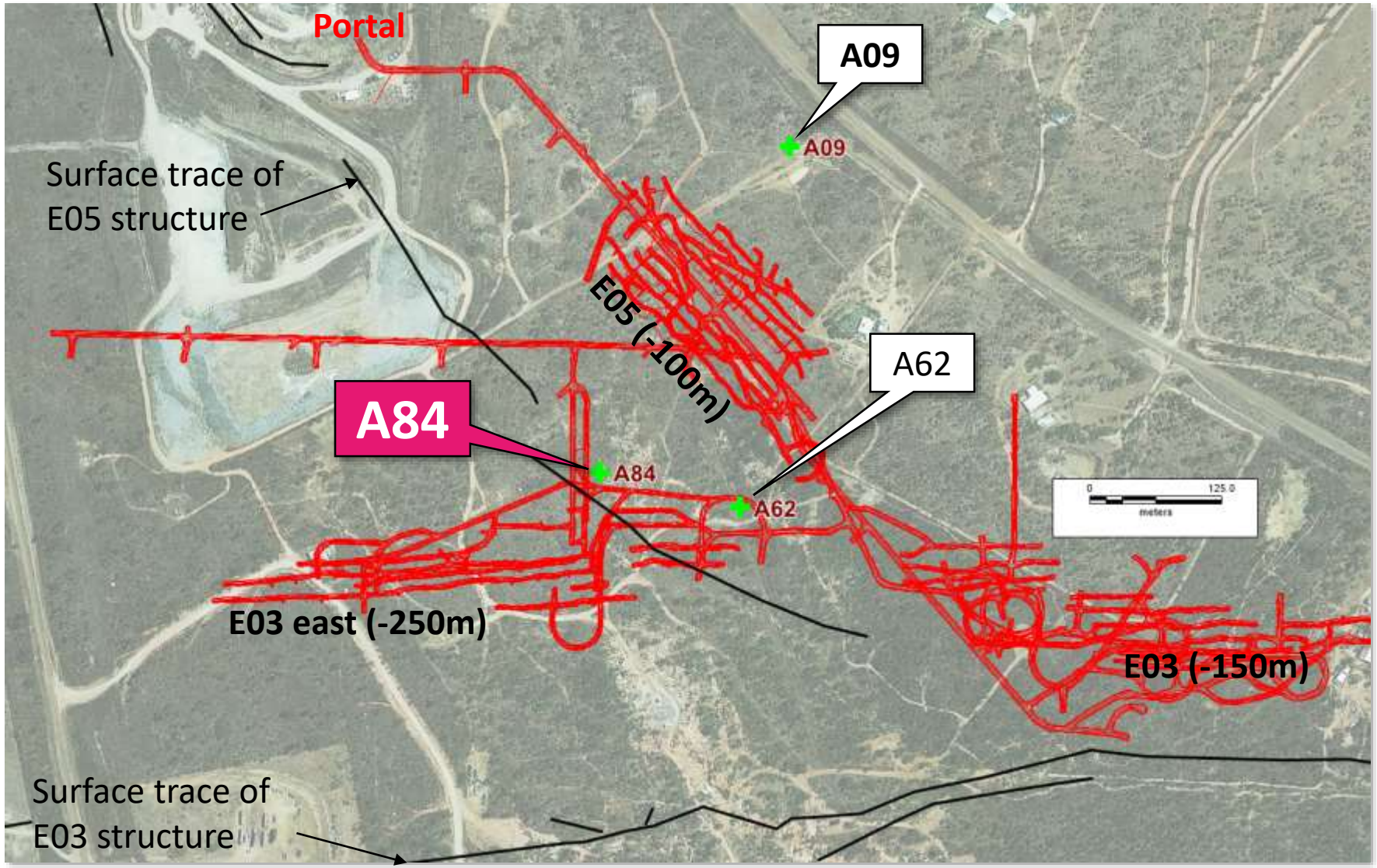


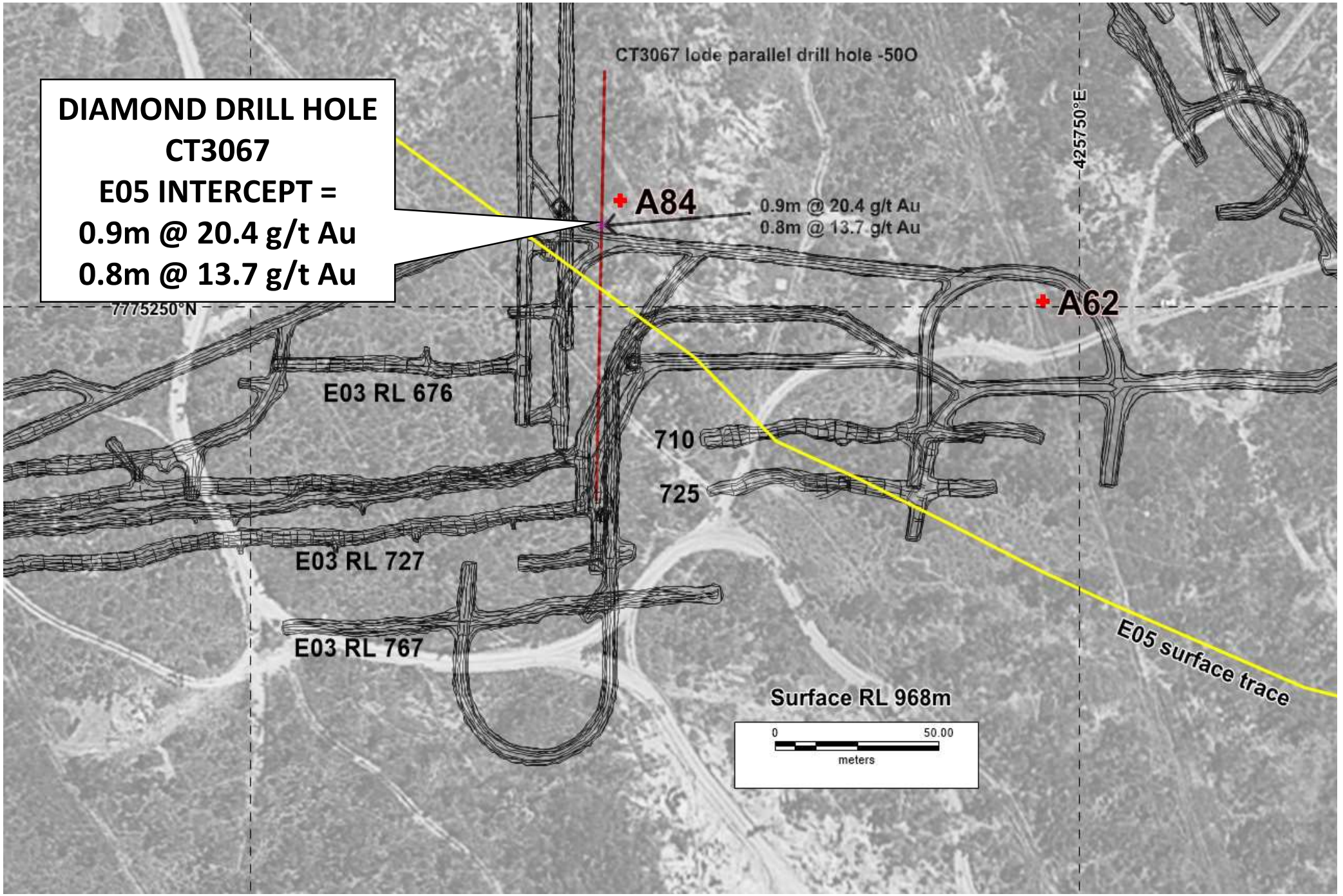
3. CENTRAL AREA



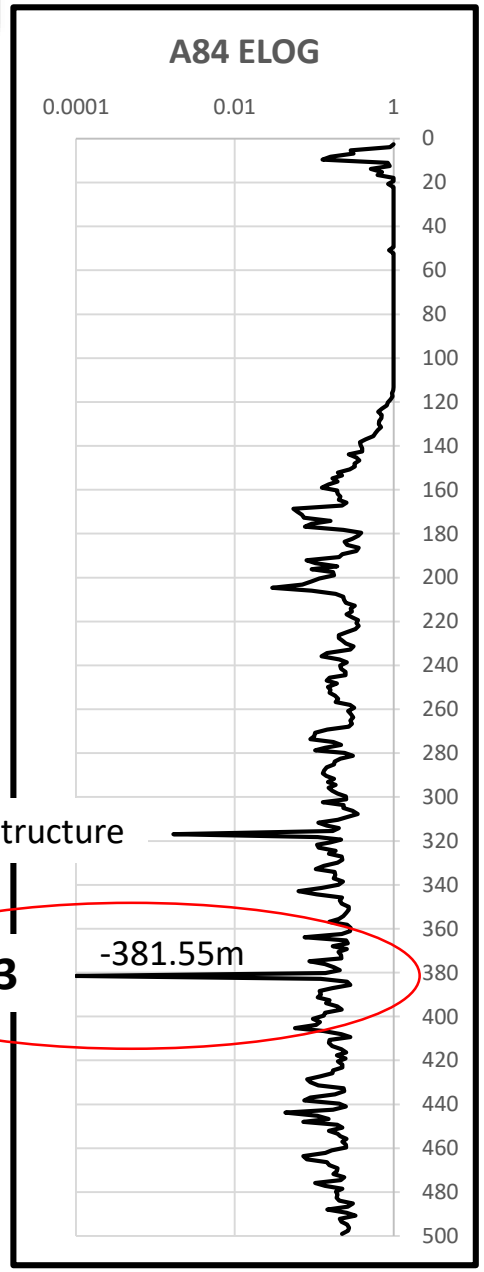
REAL WORLD RESULTS

WARRIOR MINE

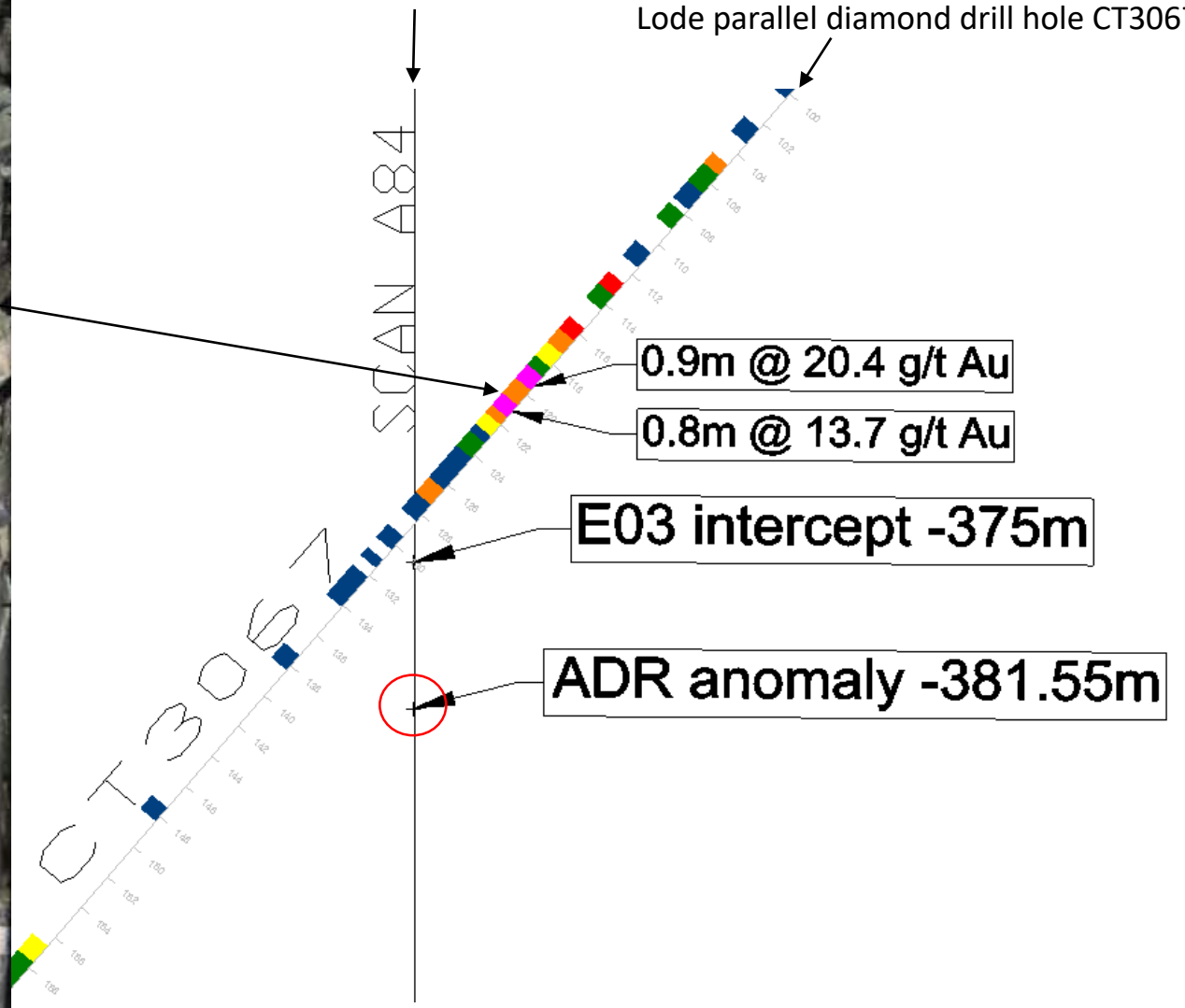



DIAMOND DRILL HOLE
CT3067
E05 INTERCEPT =
0.9m @ 20.4 g/t Au
0.8m @ 13.7 g/t Au
CT3067 lode parallel drill hole -50O
A84
0.9m @ 20.4 g/t Au
0.8m @ 13.7 g/t Au
A62
425750°E
7775250°N
E03 RL 676
710
725
E03 RL 727
E03 RL 767
E05 surface trace
Surface RL 968m
0
50.00
meters

ADR A84

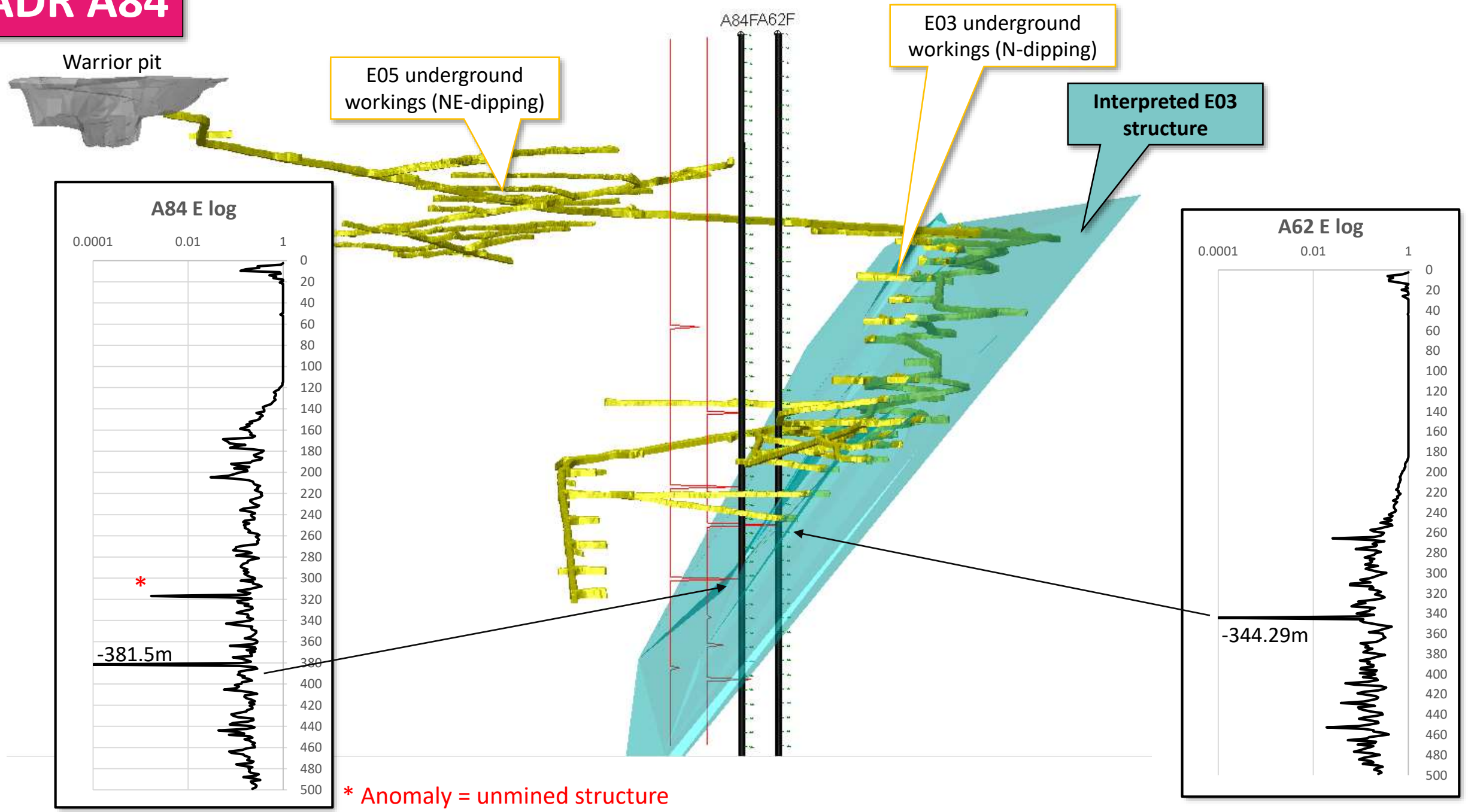


CT3067



+6.5m

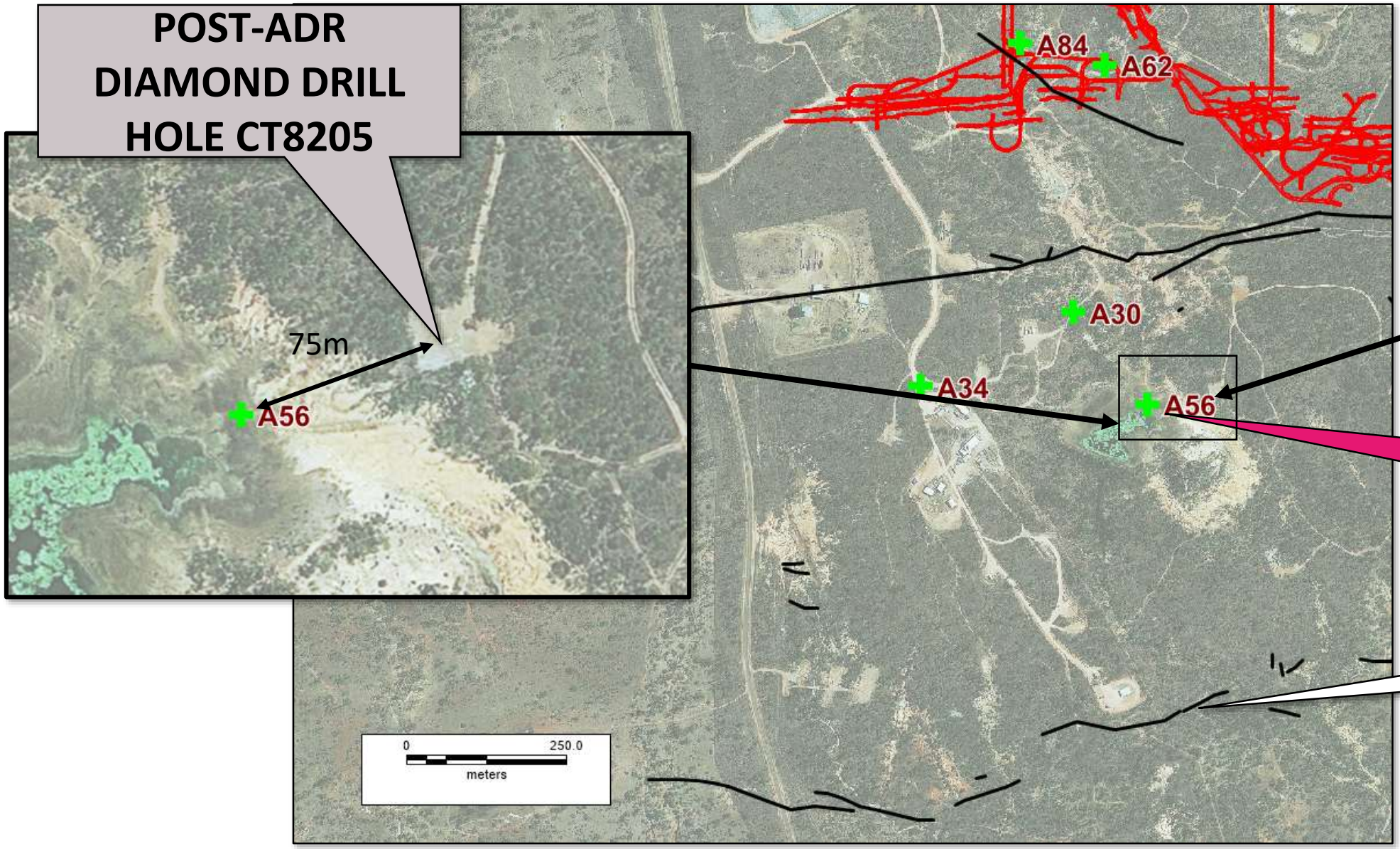
ADR A84



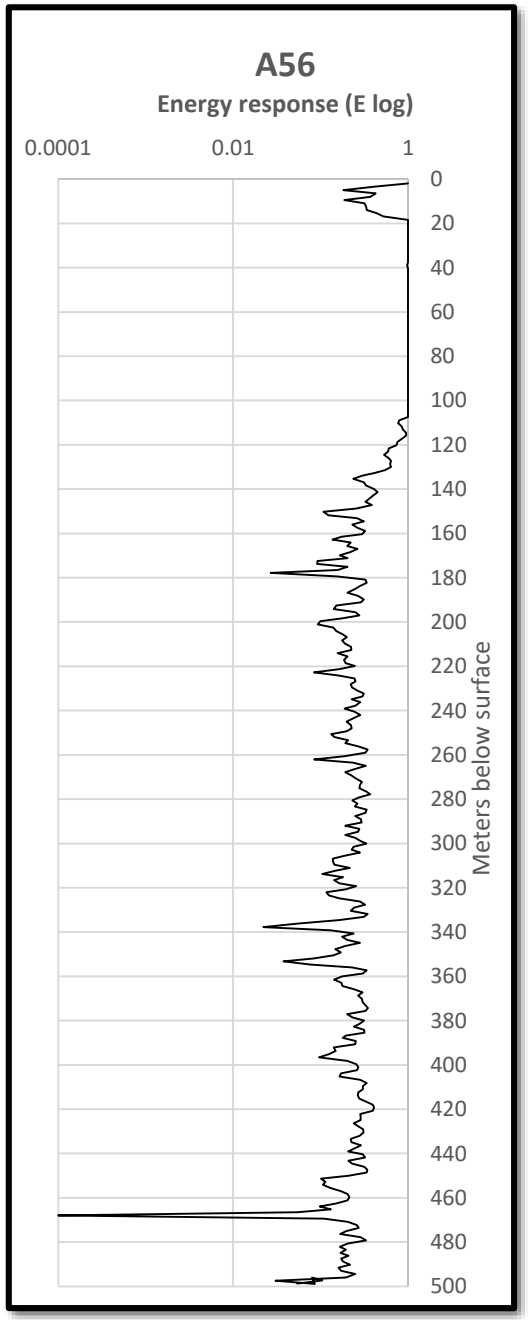
* Anomaly = unmined structure

REAL WORLD RESULTS

IMPERIAL PROJECT



ADR A56



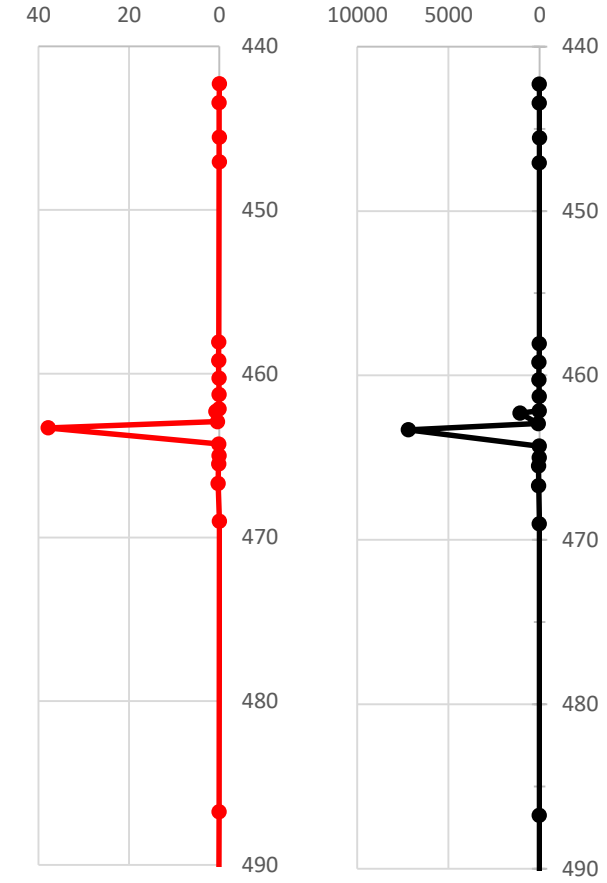
-467.91m

~40cm thick intercept at **-463m**

CT8205 assay results

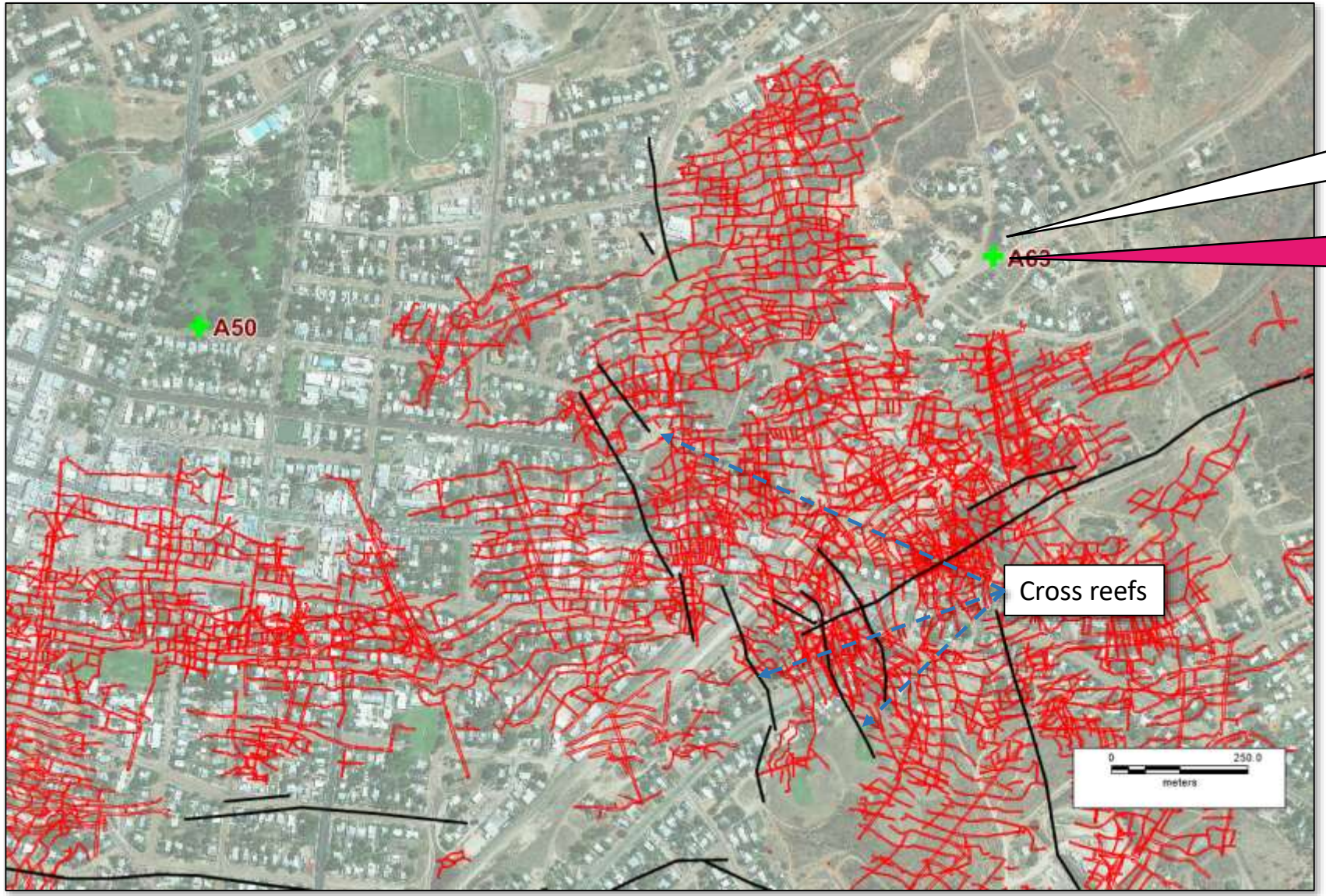
37.9 g/t Au

7200ppm Pb



REAL WORLD RESULTS

CENTRAL MINE



DD93QF5

A63

TESTING THE BRILLIANT EAST (C05E) STRUCTURE

ADR A63

DD93QF5 series drill holes

Scan A63

SECTION OF ADR ELOG plot

664.77m

695.15m

650
660
670
680
690
700
710
720

~30m

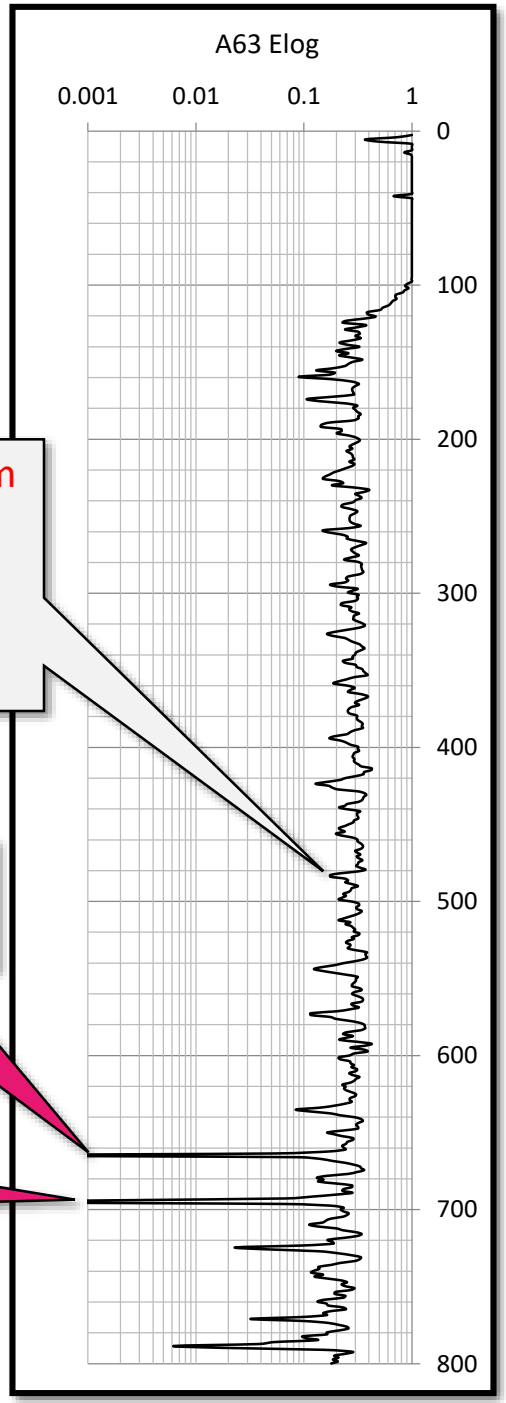
Intercept - 664m
183 g/t Au
12700 ppm Pb

Intercept – 696m
15.8 g/t Au
8150 ppm Pb

DD93QF5_W1

DD93QF5_W2

+0.8m and -0.9m



Intercept - 483.1m
858 g/t Au
7230 ppm Pb
Vis gold in **5cm**
thick intercept

Brilliant (C05)
Hanging wall

Brilliant (C05)
Foot wall