

PROJECT RESULTS REVIEW FOR SULFIDE DELINEATION AT BALLINALACK, IRELAND



15th JANUARY 2020

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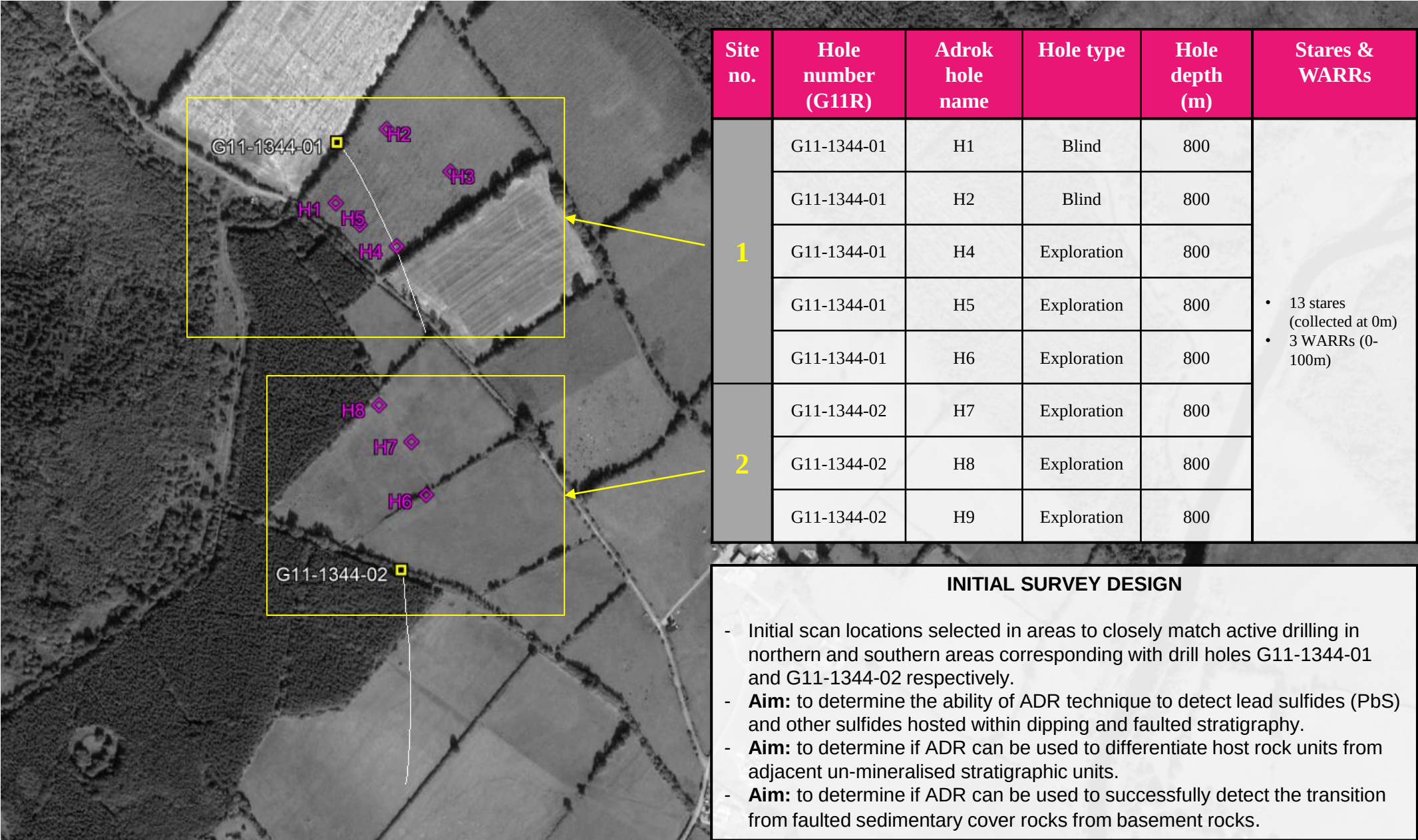
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AIM OF THIS DOCUMENT

- Present up-to-date information on the G11 Pb-Zn target area. New information including drill logs and 3D models provided by G11 have allowed for further assessment of the results with some significant new conclusions.
- Provide a presentation of scan information relative to interpreted geological models. Two geological models are used, one generated by Adrok using Geoscience Analyst (limited information available) and a second model provided by G11 viewed using Leapfrog Viewer and containing significantly more data than is available for Adrok's model.
- A re-examination of the style and distribution of mineralisation and how this was interpreted in the initial project results delivery.
- Present conclusions from the aforementioned analysis and summarise gaps in the existing model and knowledge

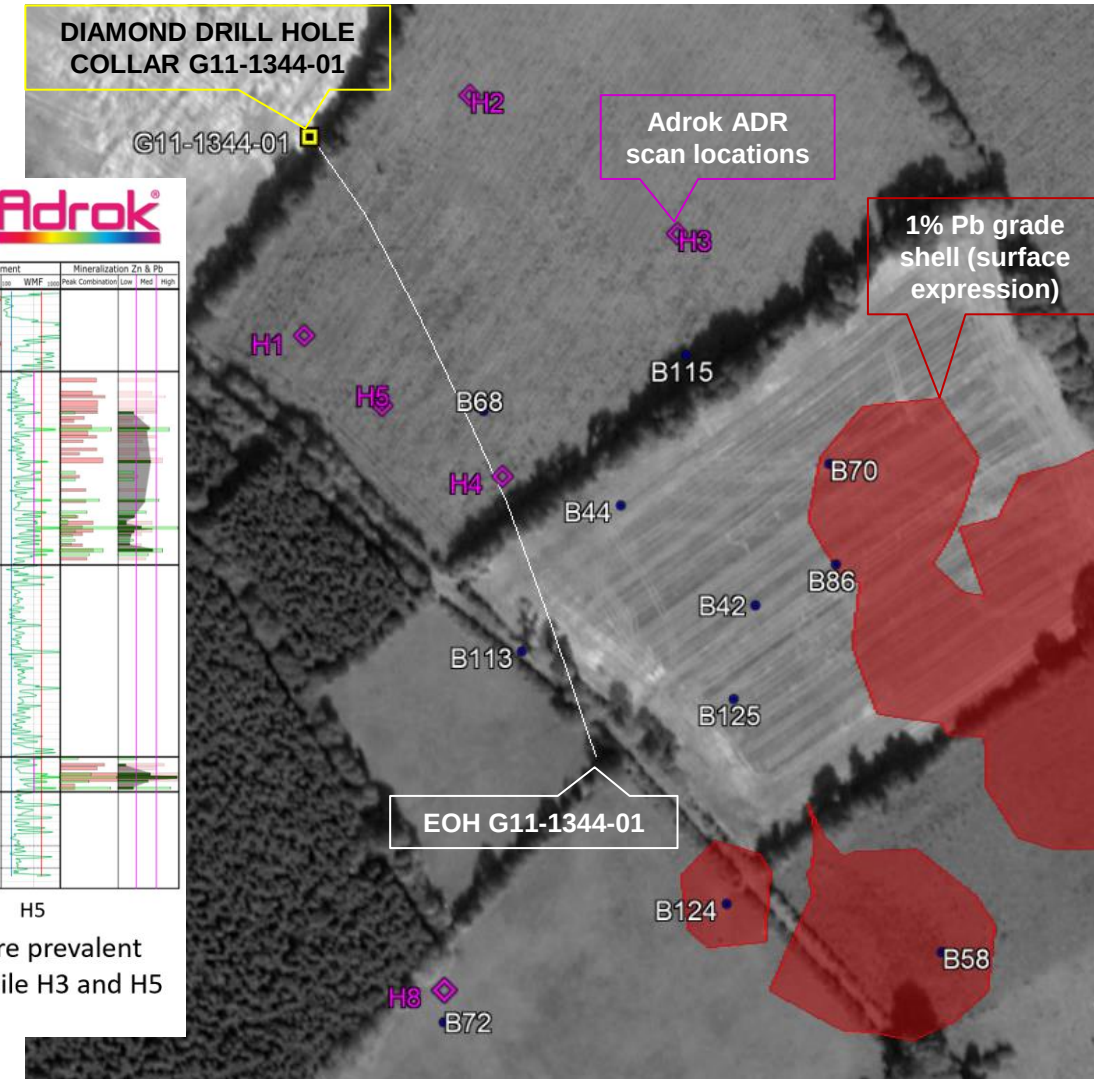
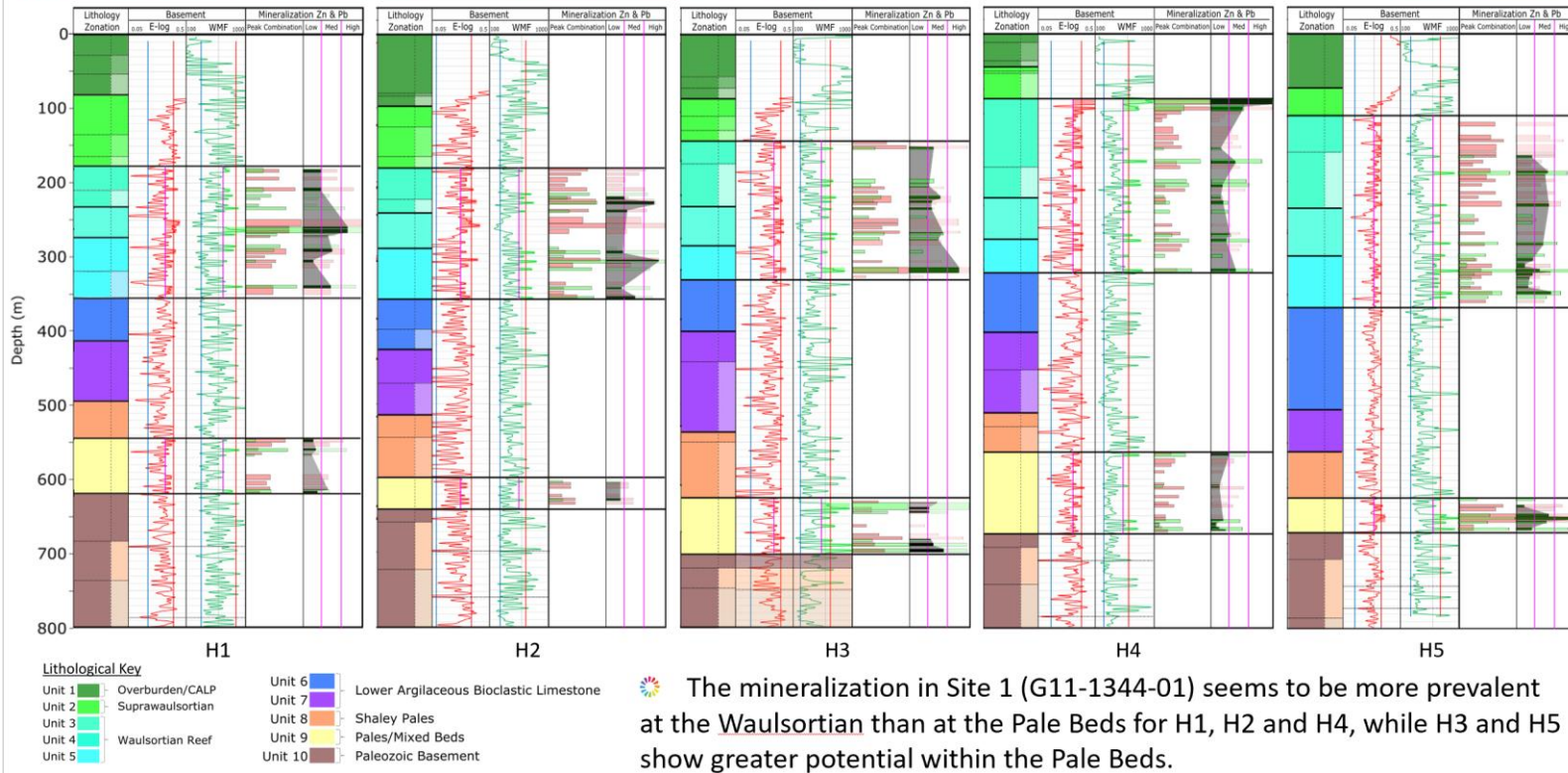
SUMMARY CONCLUSIONS

- Results from the "Northern Area" which includes scans H1-H5 show very good correlation between the drilled lithologies and the lithologies extracted from the ADR results.
- Minor to no lead sulfides are present in drill core G11-1344-01 and no other drilling in the vicinity show any notable mineralisation. Furthermore, the area where the scans were completed lies outside of the 0.05% Pb grade shell, therefore lead and/or zinc sulfides are not anticipated to be imaged using ADR.
- Scans in the southern area were reportedly located in the wrong position such that the scans cannot be correlated with any results (rock types or mineralisation) in diamond drill core G11-1344-02 as planned.
- Data (scans) collected in during the previous field campaign have been used effectively to determine the "fingerprint" of each stratigraphic unit in the ADR scan data. Thus, the data collected to data can be used as a benchmark for NON-MINERALISED stratigraphy.
- A minimum of 4 new scans are proposed over areas CONTAINING SIGNIFICANT MINERALISATION (i.e. >1% Pb + Zinc Sulfide) in order to "close the loop" of the experiment/test. Taking scans in areas with notable mineralisation will allow a direct, statistical comparison of ADR responses from the same rock unit 1) lacking mineralisation (i.e. barren) and 2) CONTAINING mineralisation.
- Completing additional surveys will be expected to provide information that could be used in the future to directly target mineralisation without the need for drilling as it is anticipated that the presence of sulfides should alter the ADR response significantly.

NORTHERN AREA

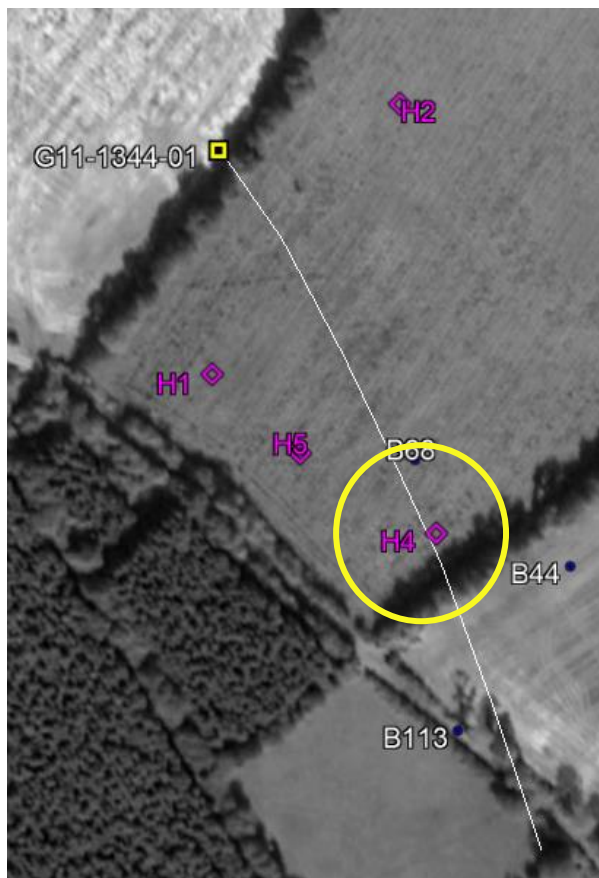
SUMMARY OF RESULTS FROM NORTHERN AREA

Mineralisation – G11-1344-01



Very good correlation between ADR interpretation and scan H4 which is the closest scan to the actual drilled geology. Other scans are located off-dip and therefore less well constrained. The results here are encouraging and suggest that the techniques adopted by Adrok to differentiate rock units work well for differentiating rock contrasting rock types.

Unfortunately, the area is relatively barren for mineralisation and therefore testing of the ADR technique to pick-up sulfides cannot be fulfilled.



G11-1344-01 vs H4

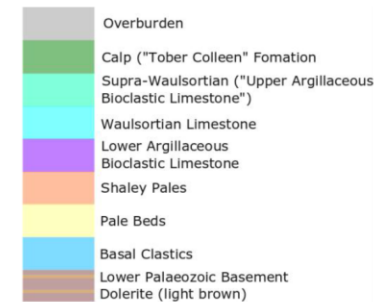
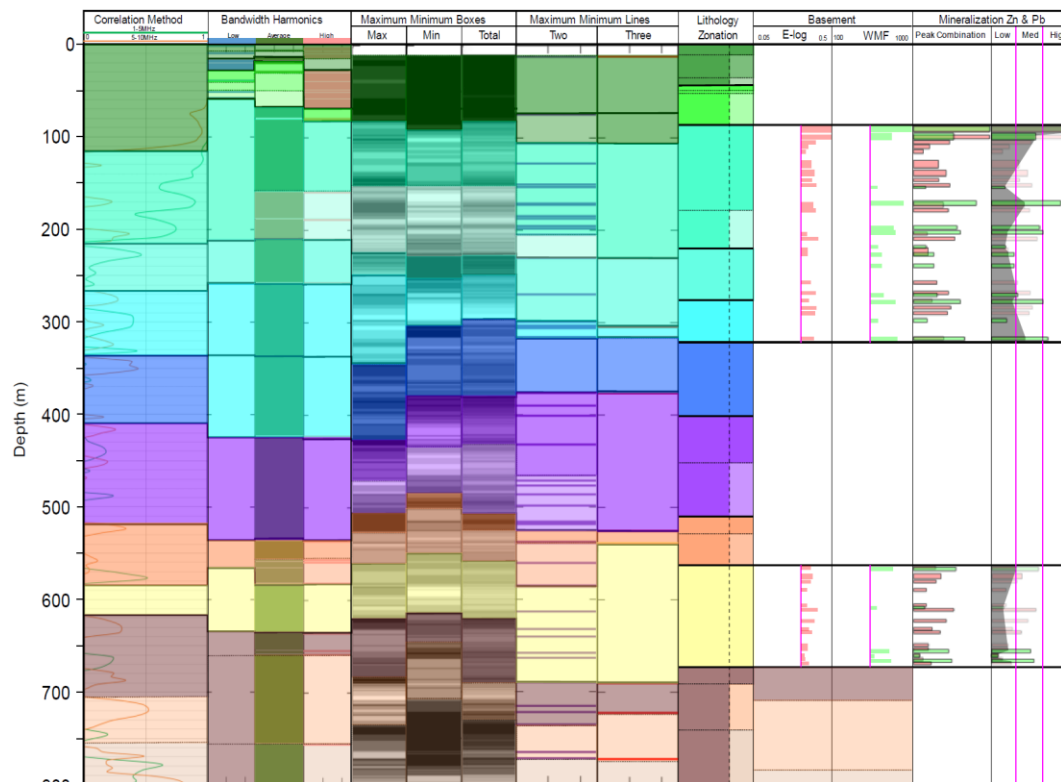
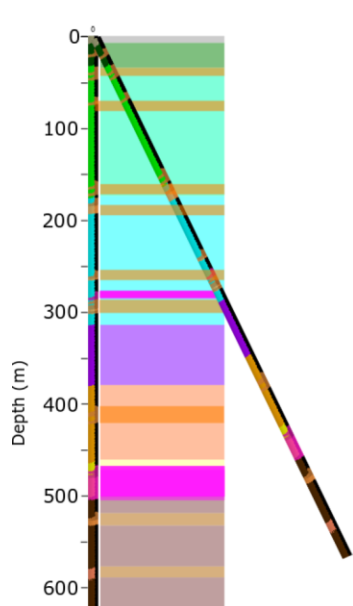
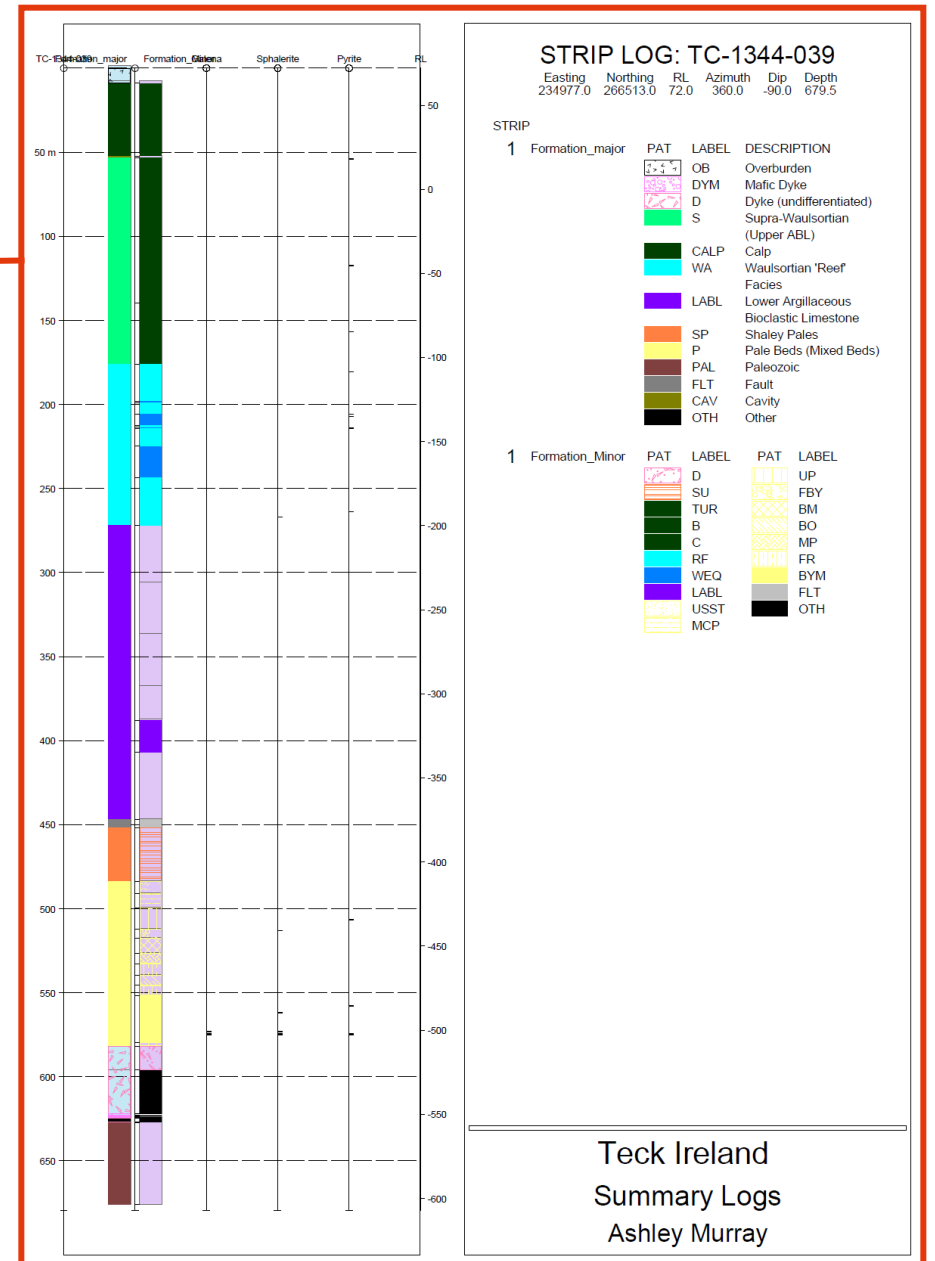
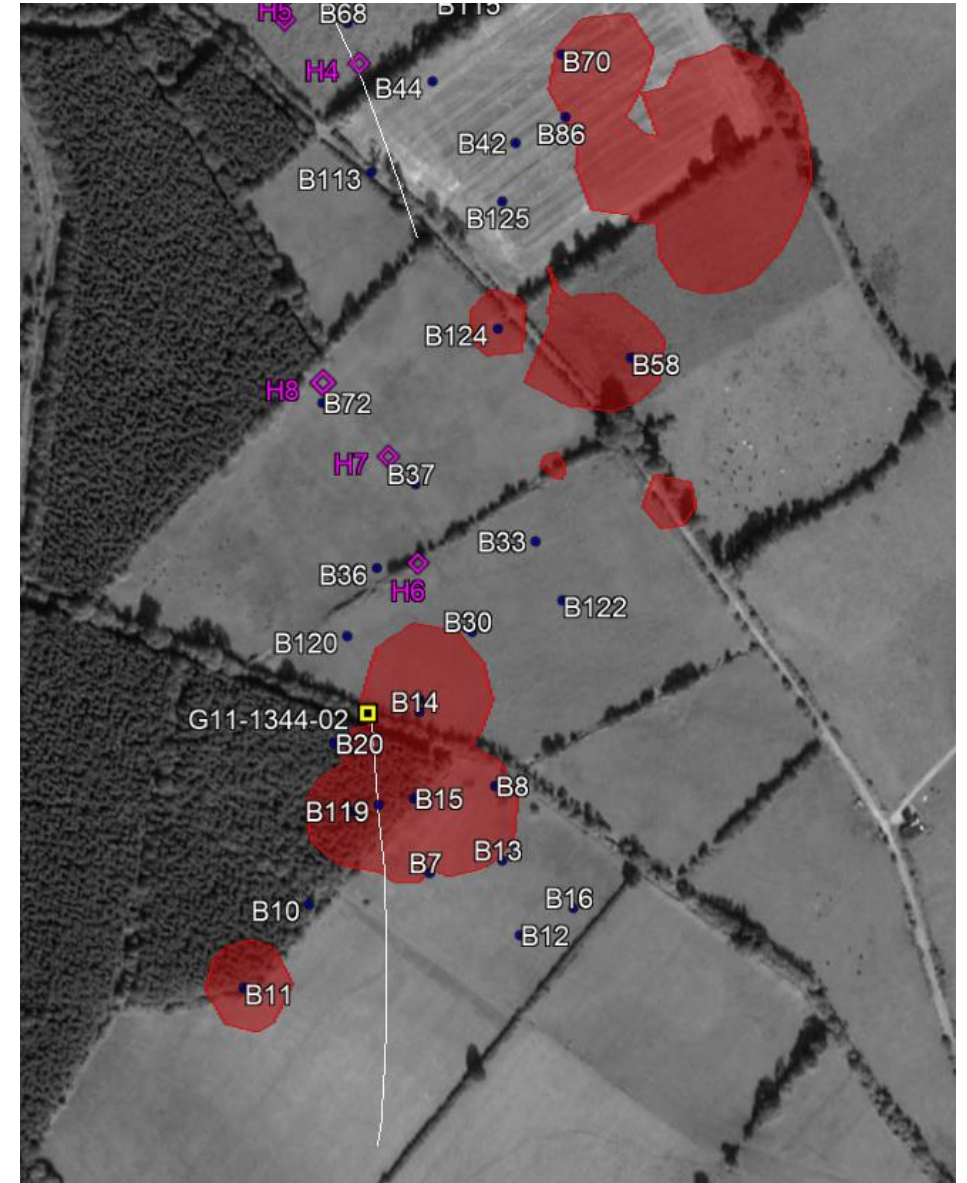


Figure 11
Left: Stratigraphic column for drillhole G11-1344-01
Right: Lithological and mineralisation interpretation for V-Bore H4



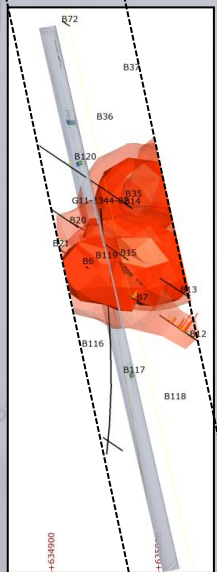
Lithological Key

Unit 1	Overburden/CALP	Unit 6	Lower Argillaceous Bioclastic Limestone
Unit 2	Suprawaulsortian	Unit 7	
Unit 3		Unit 8	Shaley Pales
Unit 4	Waulsortian Reef	Unit 9	Pales/Mixed Beds
Unit 5		Unit 10	Paleozoic Basement



South

**CROSS-SECTION X6
AZIMUTH 260
109M SECTION THICKNESS
VIEW LOOKING WEST**



X-SECTION
SLICE
PLAN VIEW

G11-1344-02 DRILL HOLE

0.5% Pb
grade shell

1% Pb
grade shell

B36 (H6)

B37 (H7)

B72 (H8)

North

H8 NO SULFIDES

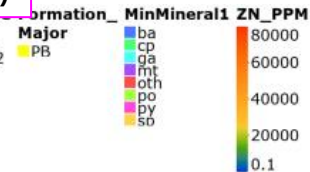
H7 MINOR SULFIDES
Grade below 0.5%
grade shell

H6 MINOR SULFIDES
Grade below 0.5%
grade shell

ADR SCAN H6

ADR SCAN H7

ADR SCAN H8



Plunge 00
Looking West



25 50 75 100

South

CROSS SECTION X6
AZIMUTH 260
109M SECTION THICKNESS
VIEW LOOKING WEST

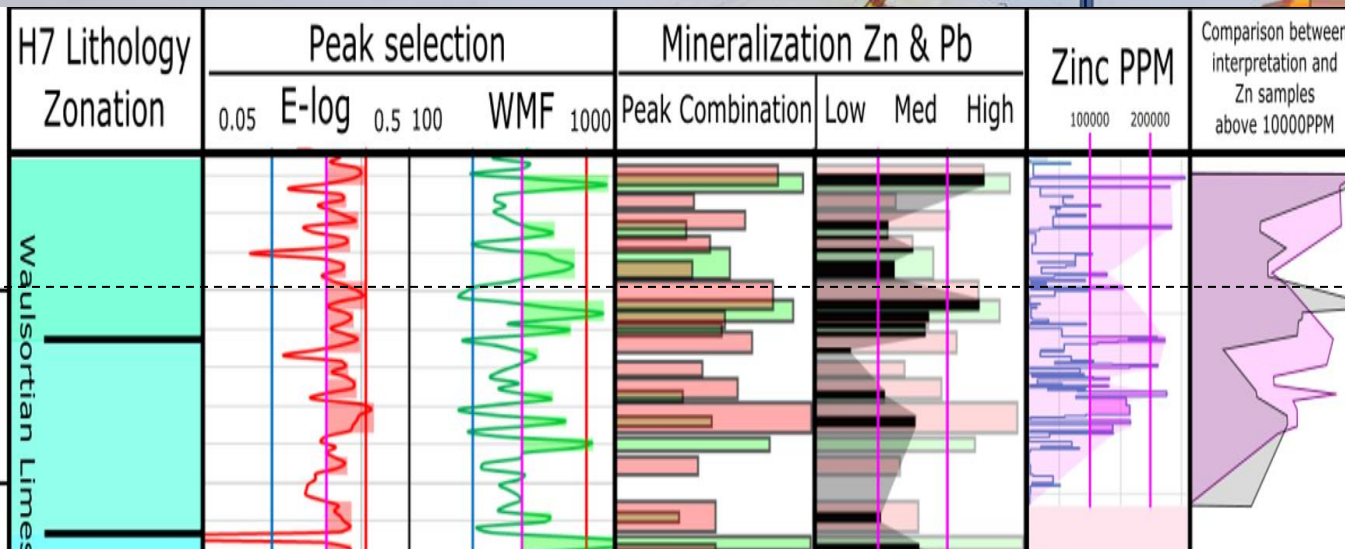
B37 (H7)

North

ADR interpretation Zn sulfides at >150m depth



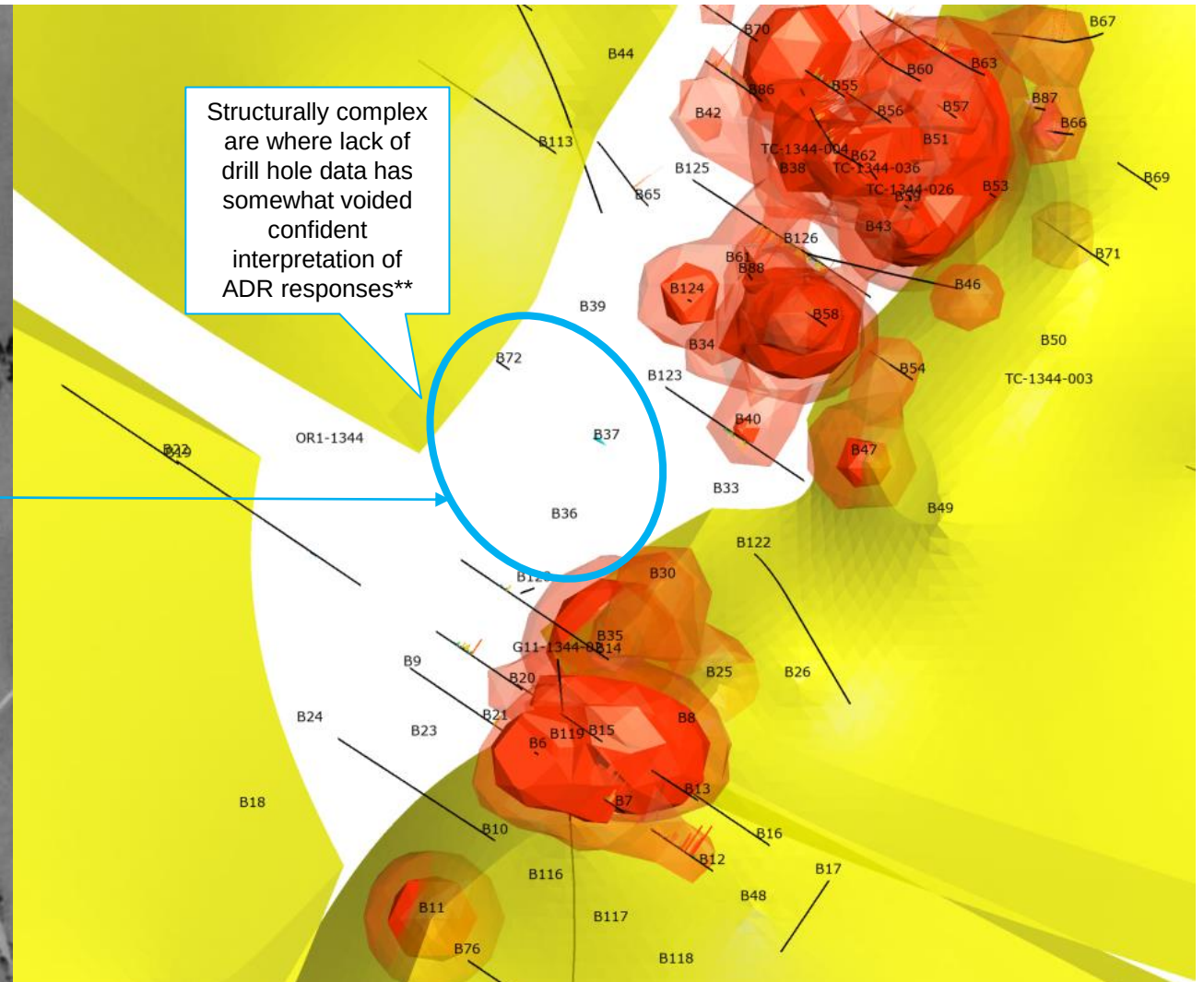
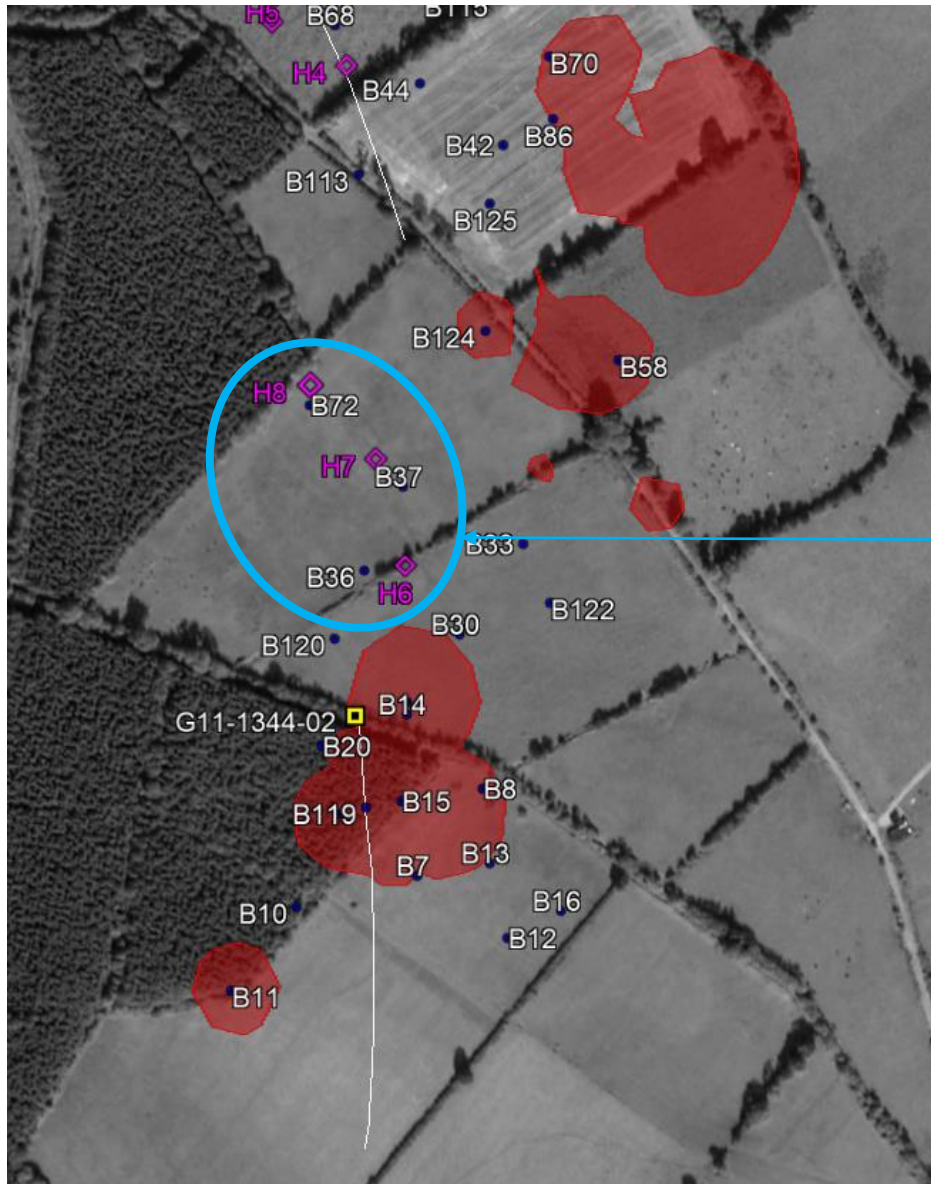
depth (m)



-200m below collar

Plunge 00
Looking West

0 25 50 75 100



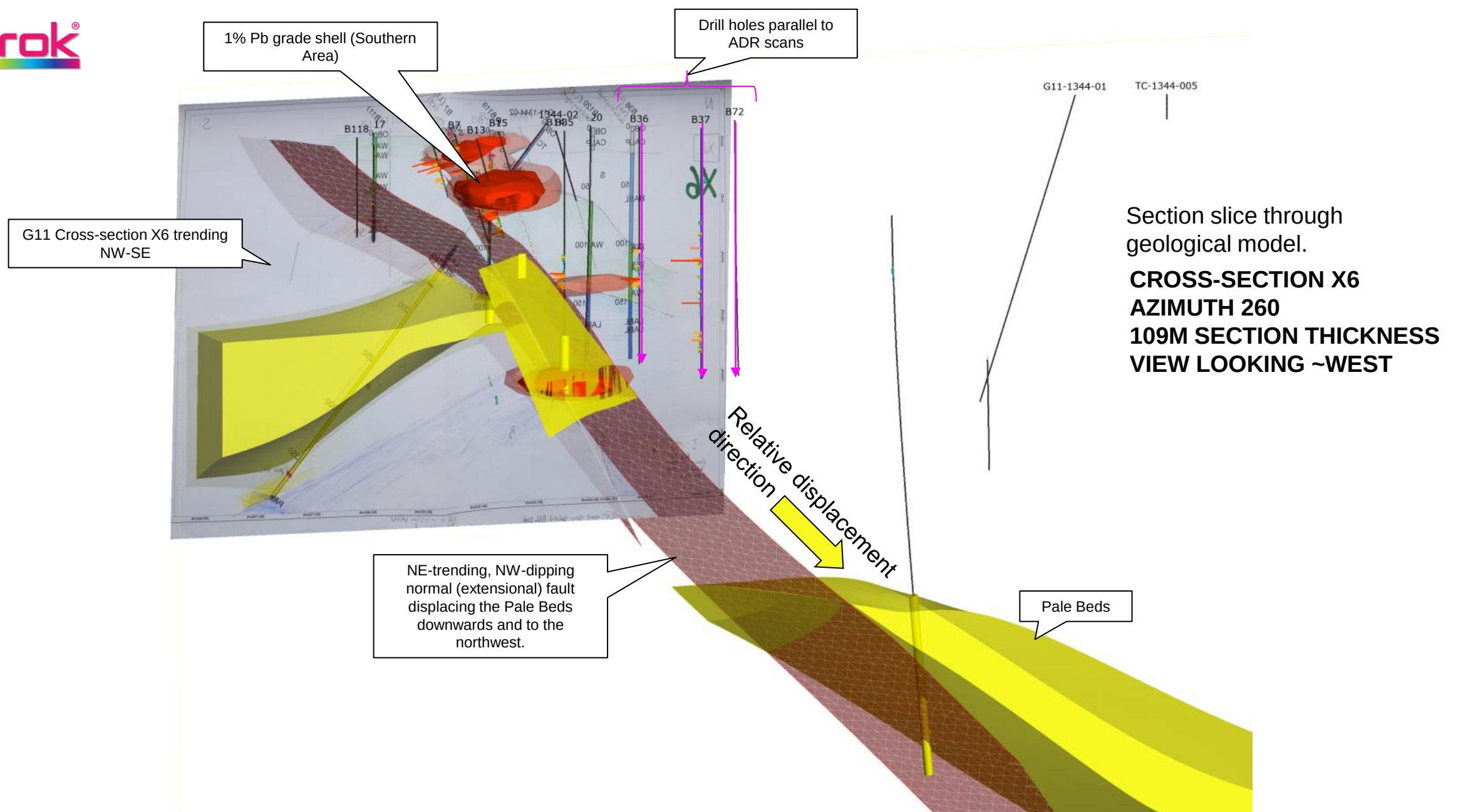
** It should be noted that the results presented to G11 were a comparison between ADR responses and drill hole G11-1344-02 which, as demonstrated (slide 16), is an incorrect comparison. The Adrok interpreted stratigraphy from ADR responses is likely to be correct.

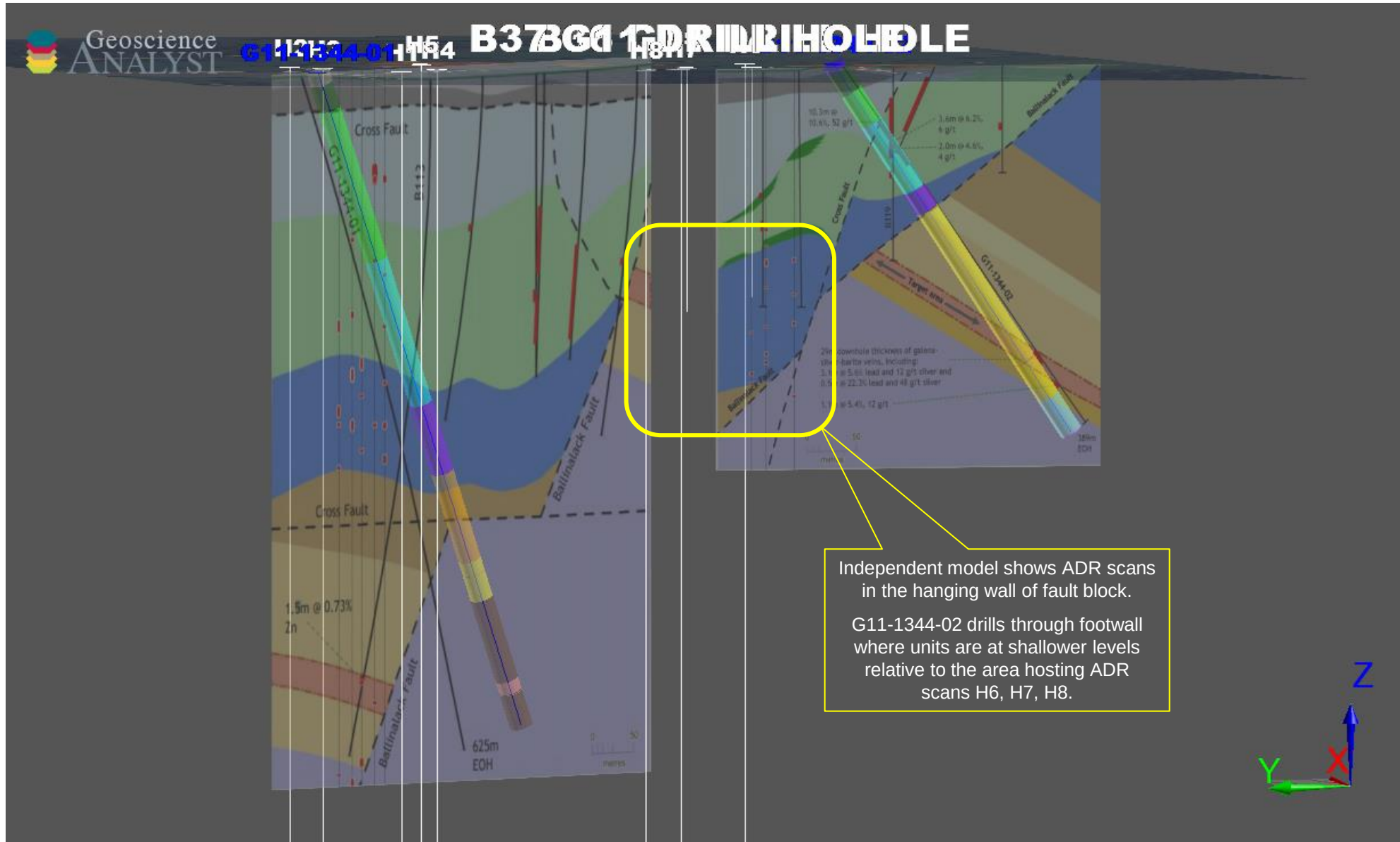


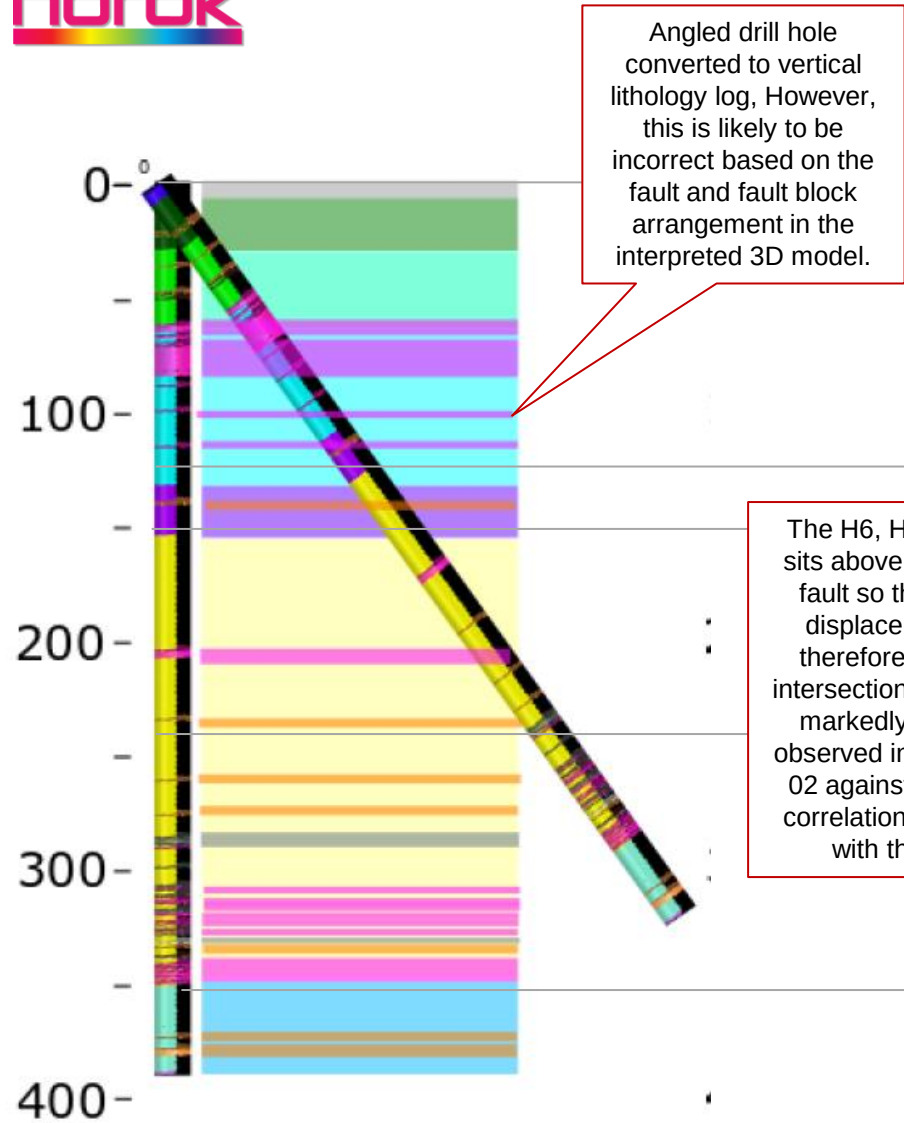
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The H6, H7, H8 area sits above the normal fault so the vertical displacement and therefore rock type intersections may differ markedly from that observed in G11-1344-02 against which the correlation was made with the ADR

Adrok Site 2

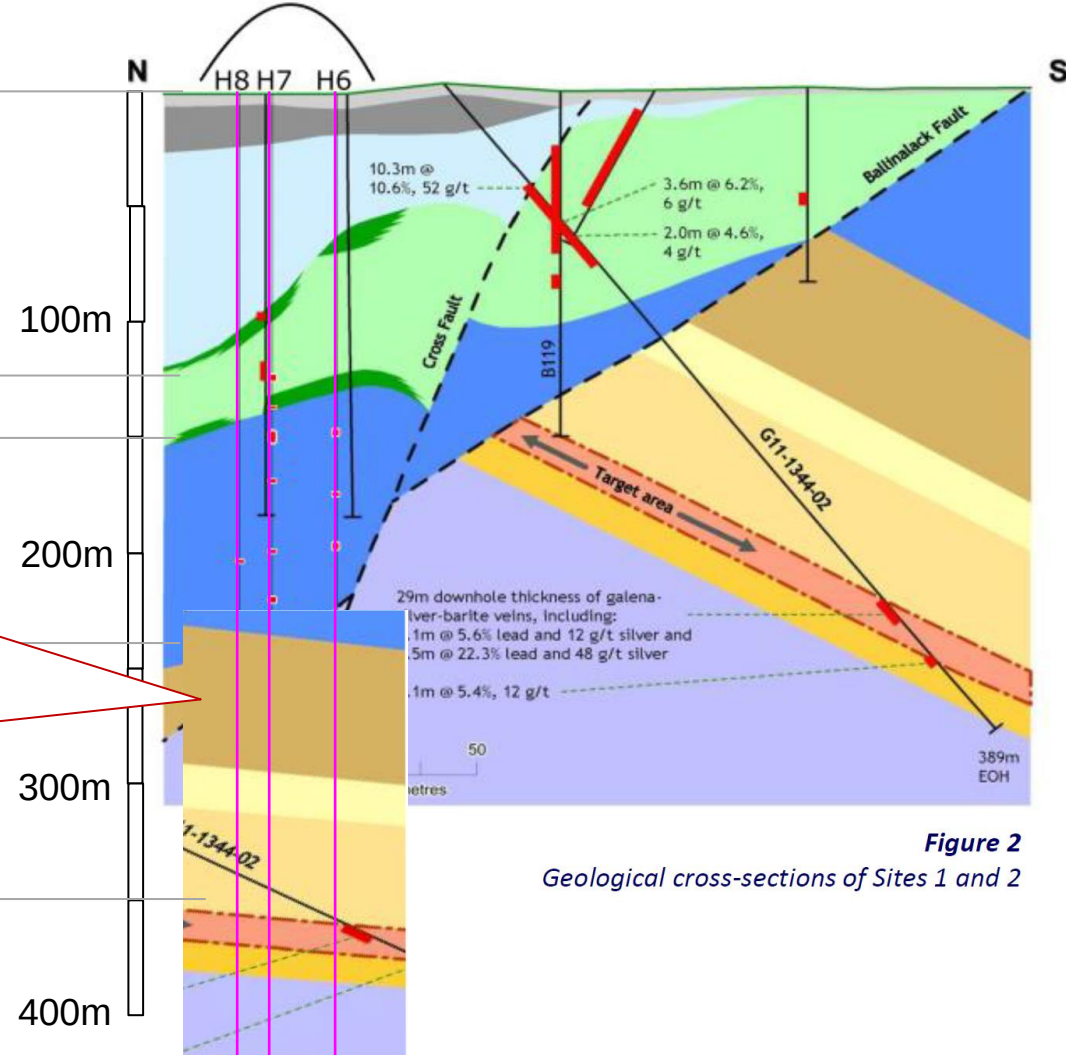
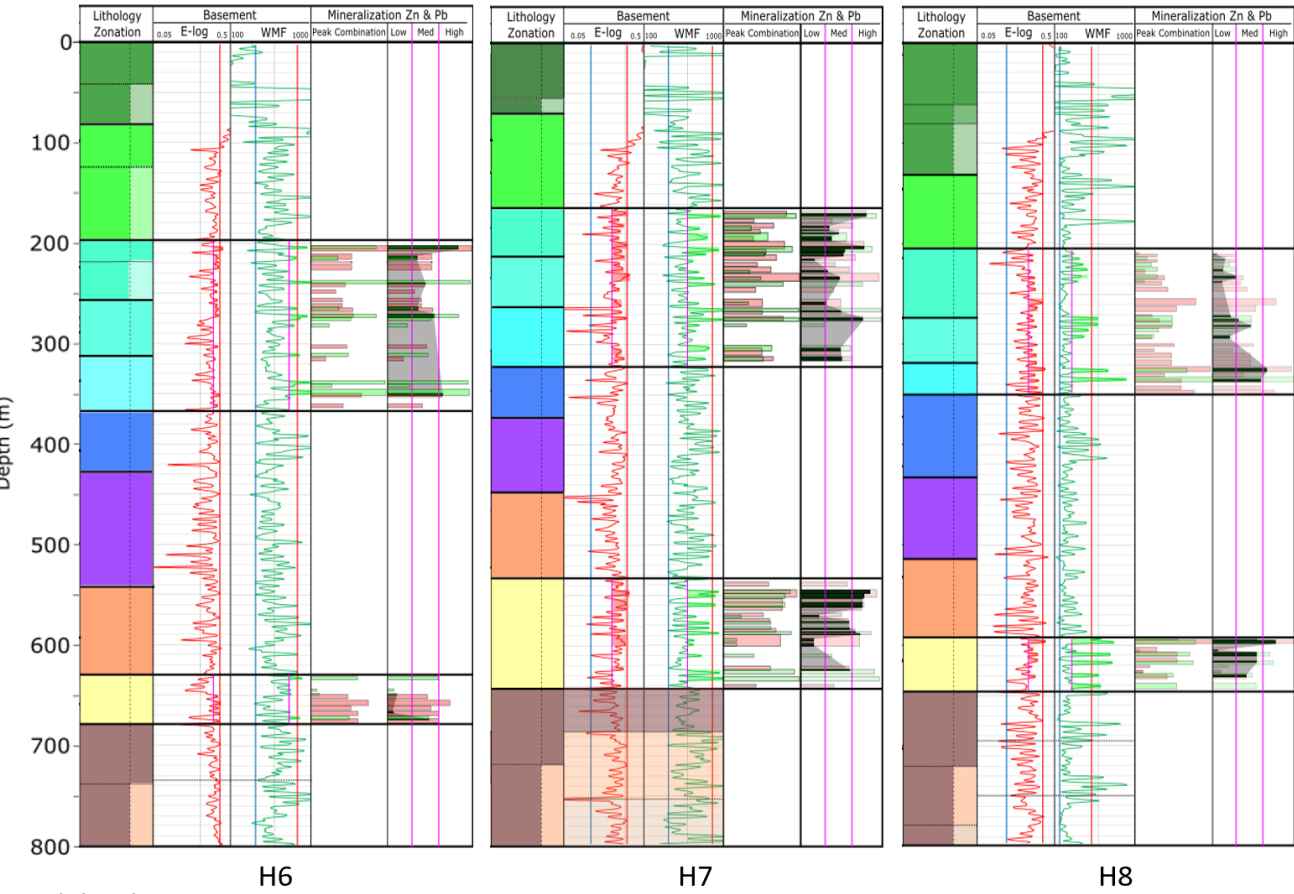


Figure 2
Geological cross-sections of Sites 1 and 2

Mineralisation – G11-1344-02

CONCLUSION: A new stratigraphic model needs to be generated for comparison with ADR results. See sketch-up below.



- Lithological Key**
- Unit 1: Overburden/CALP
 - Unit 2: Suprawaulsortian
 - Unit 3: Waulsortian Reef
 - Unit 4: Waulsortian Reef
 - Unit 5: Waulsortian Reef
 - Unit 6: Lower Argillaceous Bioclastic Limestone
 - Unit 7: Lower Argillaceous Bioclastic Limestone
 - Unit 8: Shaley Pales
 - Unit 9: Pales/Mixed Beds
 - Unit 10: Paleozoic Basement

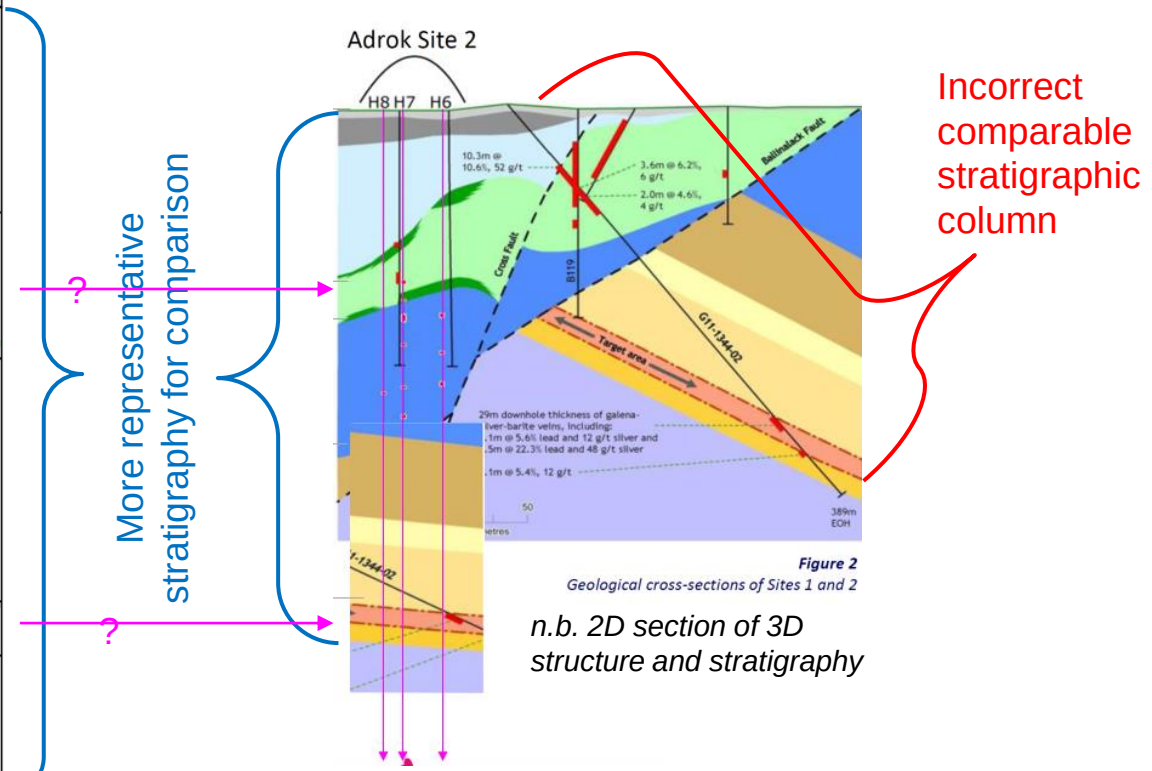
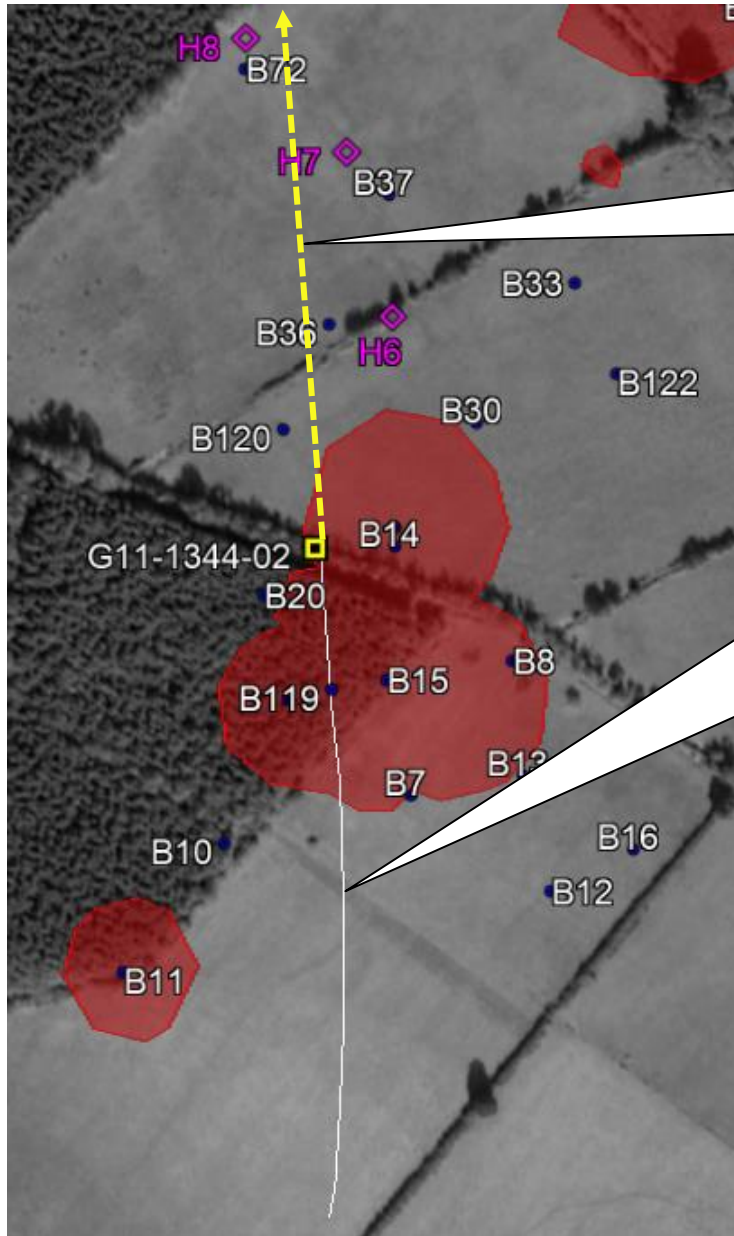


Figure 2
Geological cross-sections of Sites 1 and 2
n.b. 2D section of 3D structure and stratigraphy

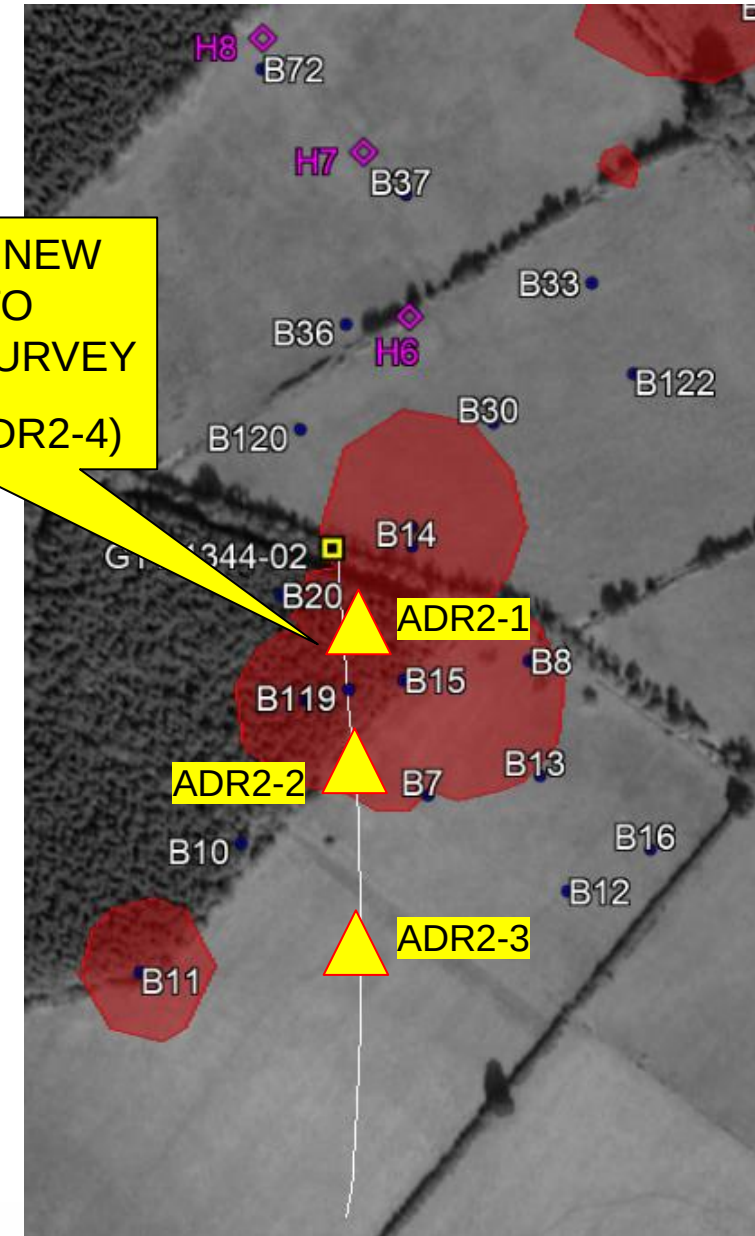


Diamond drill hole G11-1344-02 was originally planned via miscommunication to plunge to the north. Accordingly, the ADR scans, as in the northern area, were planned to image around the path of the drill hole.

Actual path of drill hole to the south is not near the ADR scans AND, the drill hole passes to the south through several faults and through a completely different level of the same stratigraphy as further north where sans H6-H8 were carried out. This appears to be a surveying mistake or an error in communication as the scans may have been planned for the area where sulfide is known to exist and, further south where extensions could be tested.

A minimum of 4 new scans are proposed over an are with known sulfides in order to correctly test the ability of ADR to detect rock types and sulfide mineralisation. Adrok has collected sufficient data to understand the response of the existing stratigraphic units. Additional scans over areas of sulfide will enable the team to determine the difference in the ADR response between the same unit but WITH mineralisation.

**PROPOSED NEW
SCANS TO
COMPLETE SURVEY
(ADR2-1 → ADR2-4)**



Phase two project outline for 2020

Adrok are proposing a second phase of scans aimed at detecting lead, zinc +/- other sulfides. Previous scans were carried out in areas where significant sulfides (e.g. >0.5% Pb) were not intersected in drilling, therefore the focus of the interpretations was to correlate rock types with the frequency and energy responses in the ADR scan data. Accordingly, this Phase one case study represents a benchmark against which scans over areas where sulfides exist can be carried out to determine the signature of sulfides in the same rock units.

A new ADR case study will also determine whether sulfides (source material) exists deeper in the sequence and/or in basement. Other case studies in base metal-bearing prospects has demonstrated that there are notable changes in the frequency response as well as corresponding anomalies (troughs) in the relative energy signal with or without changes in DC values. If the signature of the silver, lead and zinc sulfides can be extracted, this can be used to help develop a blind targeting tool for G11 which will, in turn, dramatically reduce the necessity for extensive drilling.

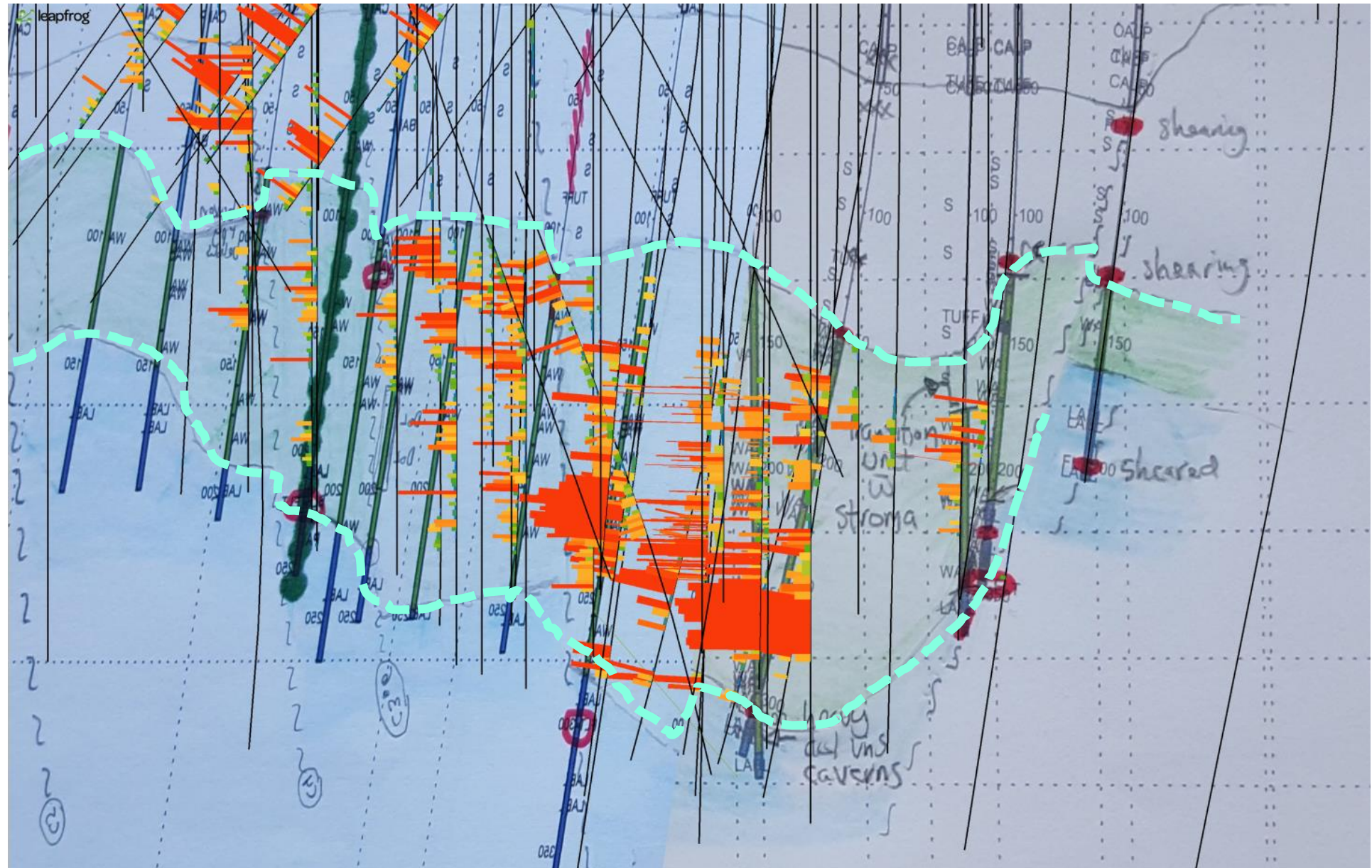
Adrok propose a series of 9 new scans and a repeat scan over the H4 area where previous results were very positive and where there is drill constraints on rock units.

- 🌈 Of the 9 proposed scans, 6 will be carried out over areas within the 1% Pb grade shell and where parallel drill holes exist nearby. The drilling can be used for direct comparison between, for example, the strength of the return energy signal, the presence of metal sulfides and the grade of the sulfides.
- 🌈 The remaining three scans will augment existing scans but will be located immediately outside of the limit of the 1% Pb grade shell. These scans will target the host rock units so a direct comparison can be made between the host rock both with and without sulfides. As above, the location of the three scans will be in areas where there is relatively good control on rock units from nearby drilling.
- 🌈 Finally, a repeat scan is proposed for the site H4 in which a correlation will be made between initial (phase one results) and this second (phase two) round of results.

Expected outcomes

- 1) Repeatability of scans over existing areas as well as short-term repeatability of scans over new areas.
- 2) Test the ADR response to sulfides from the same host unit.
- 3) Test the presence of deeper sulfides than have been intersected in drilling.
- 4) Develop a technique that G11 can use to help guide drilling in areas identified as bearing high-grade silver, lead and zinc +/- other sulfides and/or target minerals.

View looking north







*Scan collars can be moved depending upon access and area for 50-100m line

NAME	Meters Zone 29U UTM		Comments
	EAST	NORTH	
ADR 2-1	601054	5944796	In ore - South from existing mis-placed sans. Following trace of G11-1344-01
ADR 2-2	601057	5944742	In ore- South from existing mis-placed sans. Following trace of G11-1344-01
ADR 2-3	601077	5944687	South of orezone following trace of G11-1344-01. Target zone is shallow.
ADR 2-4	601190	5945121	High grade Pb zone parallel to TC-1344-004 drill hole
ADR 2-5	601214	5945111	High grade Pb zone parallel to TC-1344-036 drill hole
ADR 2-6	601239	5945098	High grade Pb zone parallel to TC-1344-026 drill hole
ADR 2-7	601308	5945005	Outside orezone but above host unit parallel to B50
ADR 2-8	601416	5944954	Outside orezone but above host unit parallel to B84
ADR 2-9	601242	5945165	High grade Pb zone but to NE
ADR 2-10 (H4)	601033	5945176	Repeat scan H4 - no ore present

