



Mazowe Mine Project

High resolution ground magnetics and gold-camp scale structural controls at Mazowe Mine



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Hillary Gumbo

25 November

Mazowe Mine Location

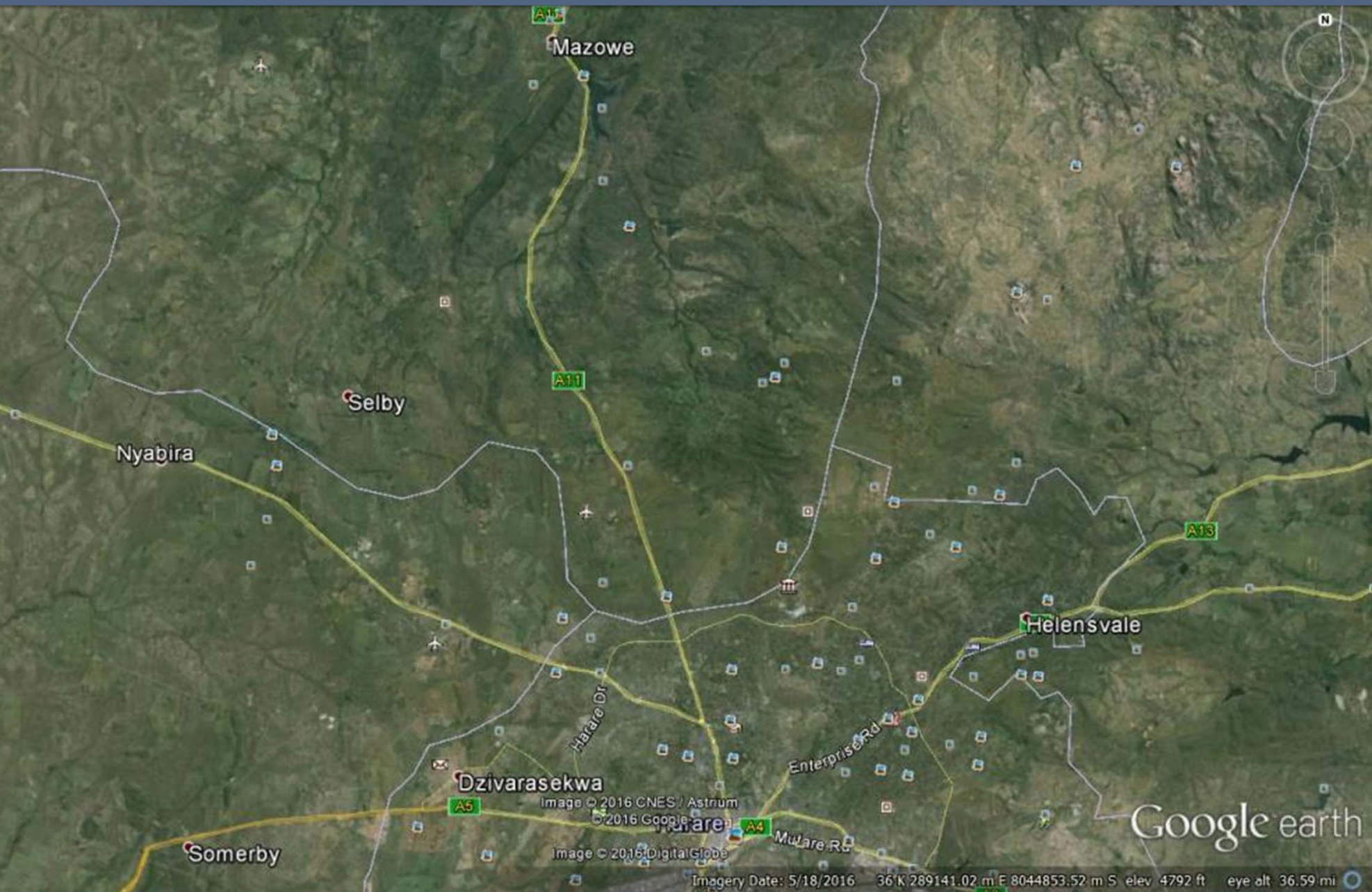
- A subsidiary of Metallon Gold Zimbabwe (Pvt) Ltd
- Located 42km north-northwest of Harare
- Access is via the Harare to Bindura wide tar road for 40km, then left for 7.5km to the offices

Survey

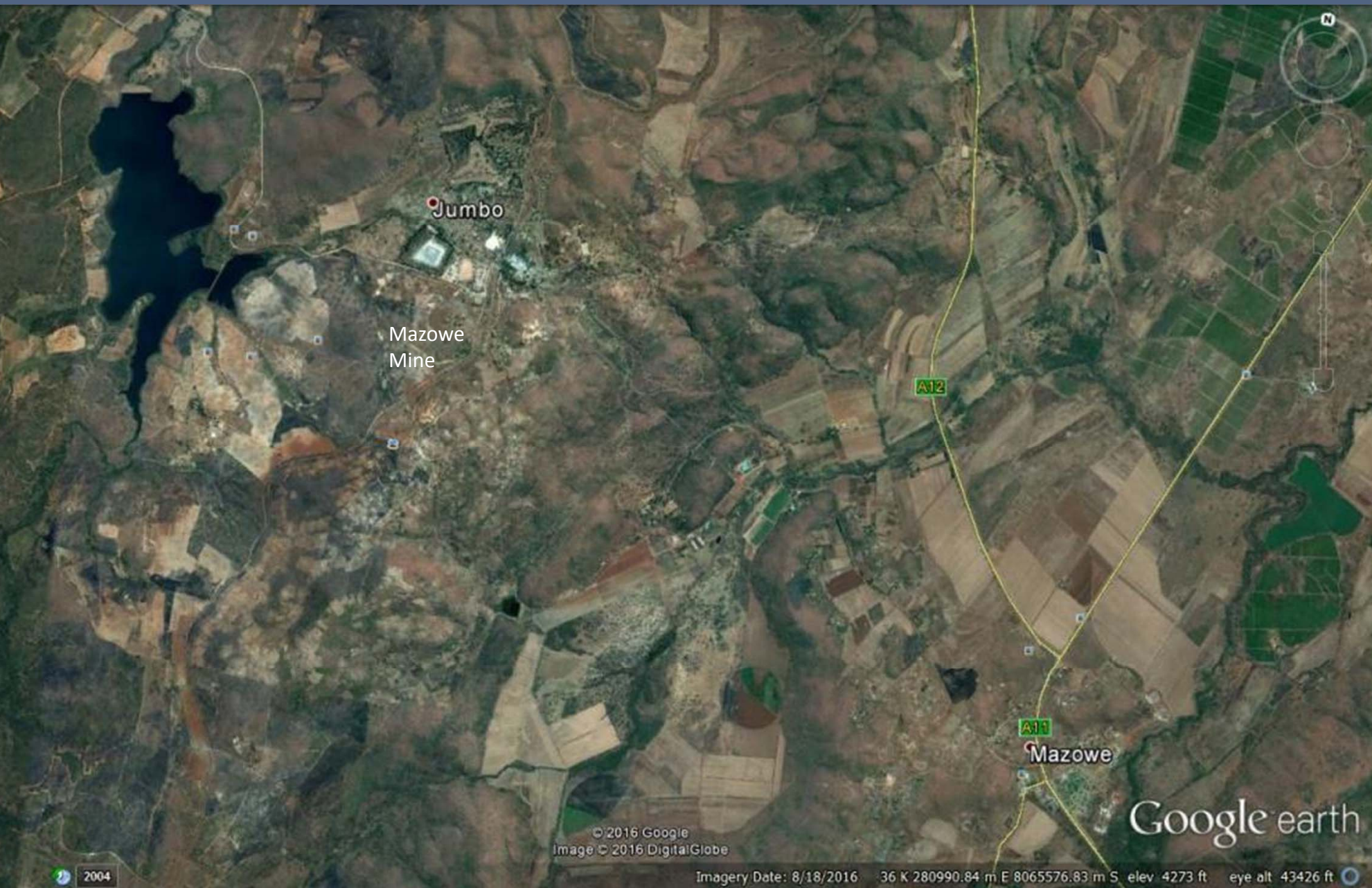
- Carried out between March and September 2016
- Over 93 000 readings (490km) taken at 5m intervals over lines 25m to 50m apart
- Geometrics G856AX equipment used with automatic base station recording every 30sec
- Covered the entire Mazowe Mining Lease

Data Processing

- Geosoft used to grid and filter data
- Gridding done at 12.5m
- Filters used to enhance subtle features include:
 - Reduction to magnetic pole – centres anomalies over source
 - 1st and 2nd Order derivatives in XYZ directions
 - Analytic Signal
 - Automatic gain control
 - Data windowing to remove spikes
 - Sun shading etc

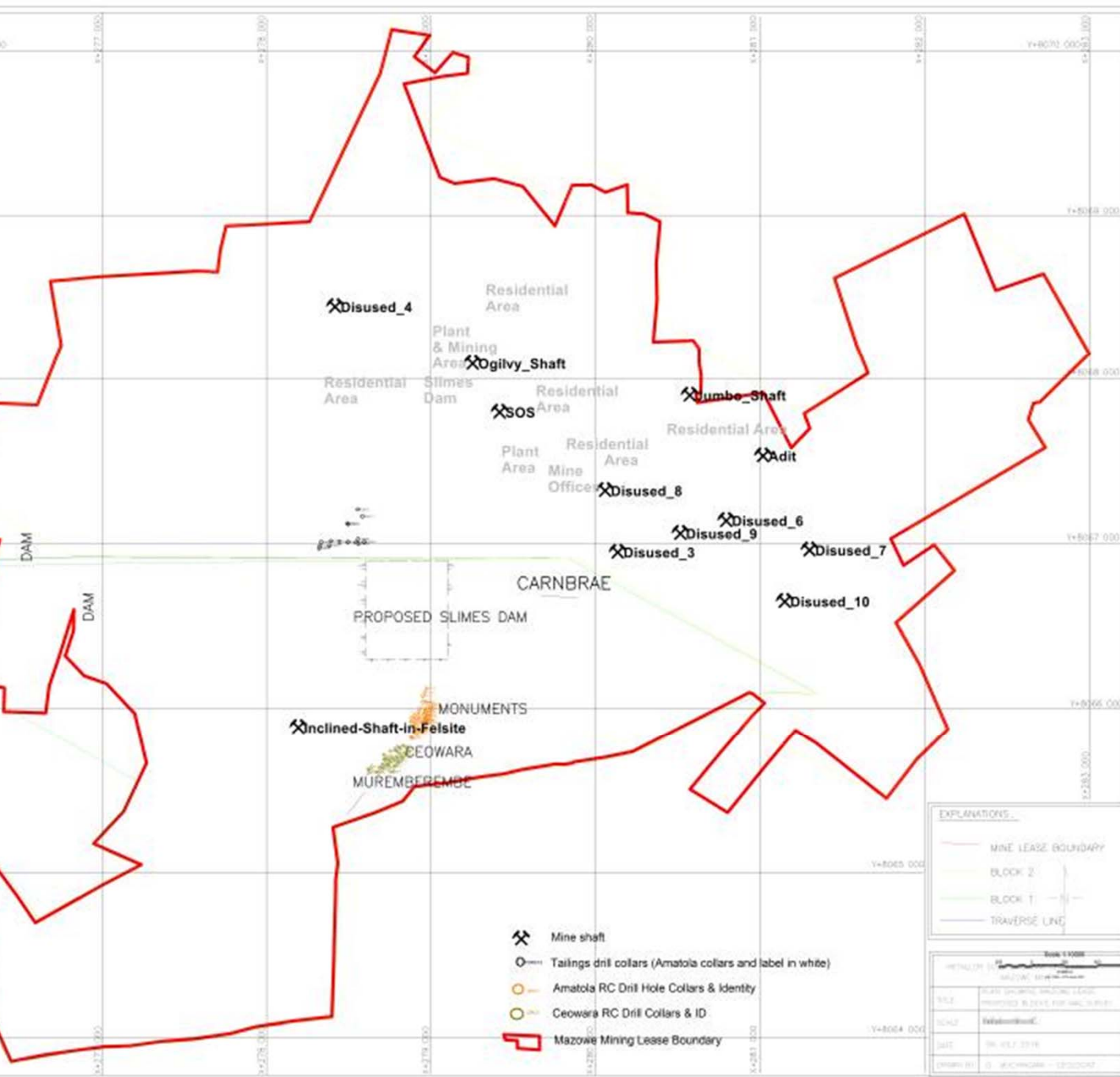


Mazowe Co
Location M

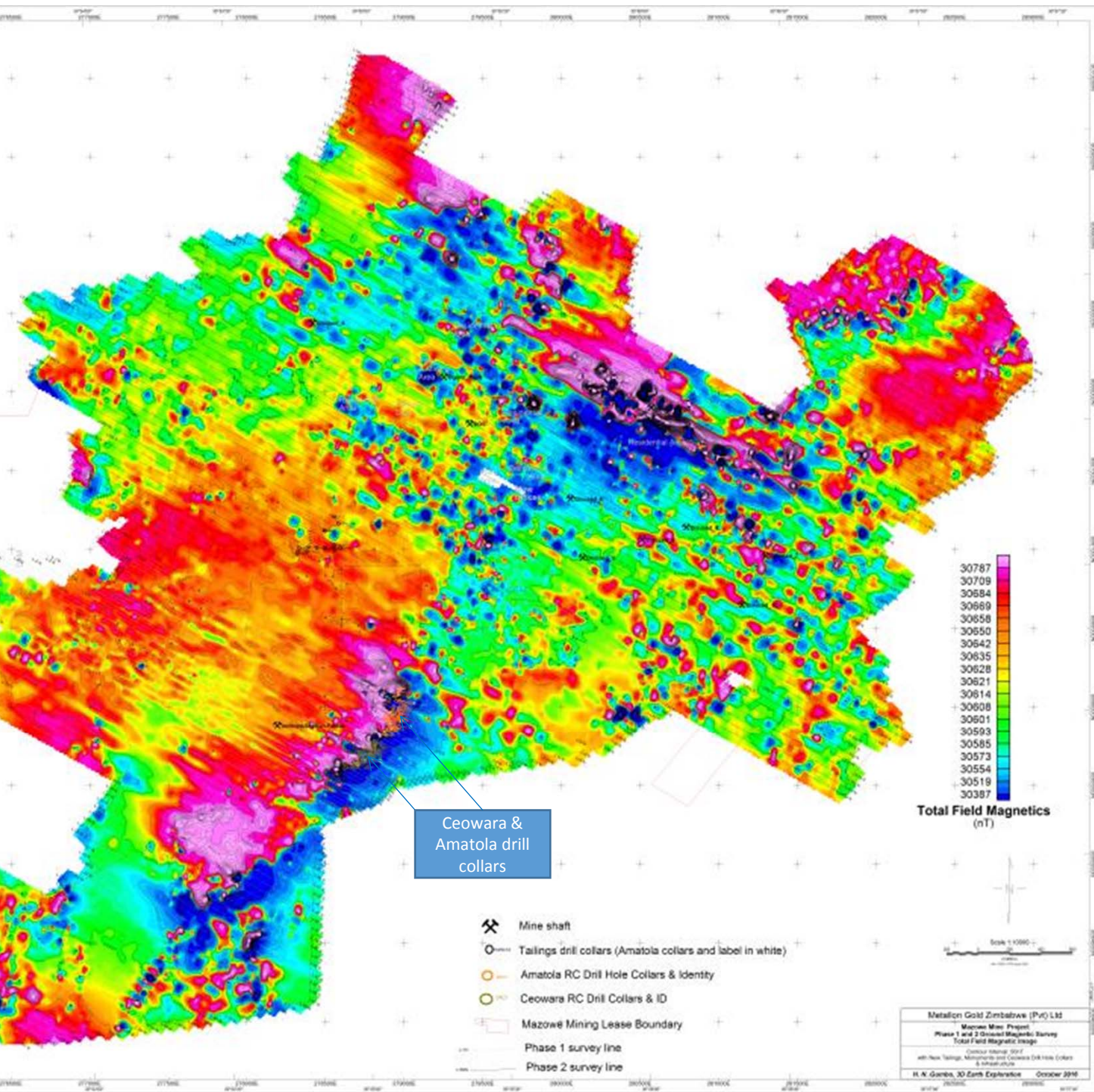


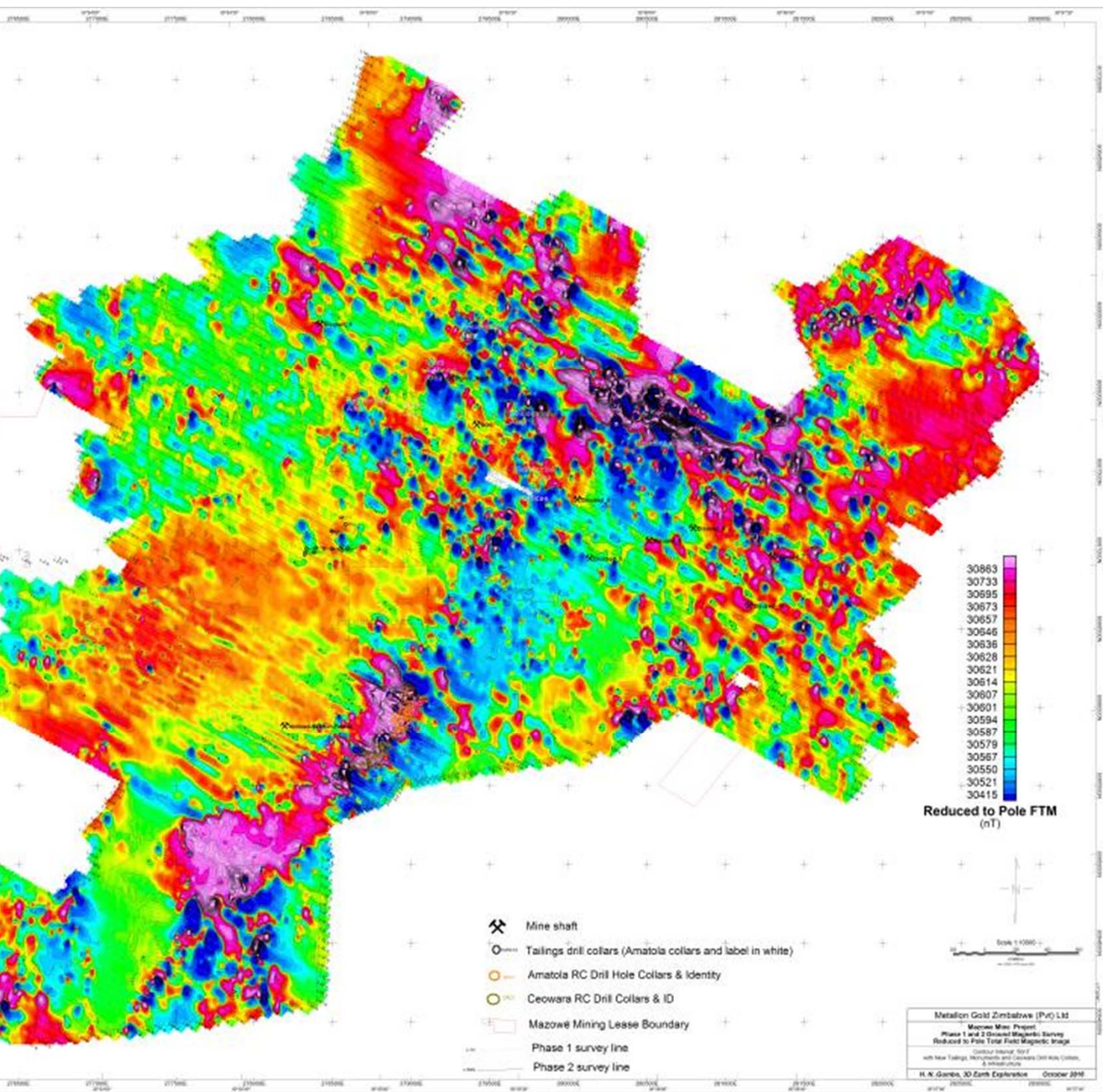
Google Map of
Mazowe Mine
Area

Mazowe Mining Lease Infrastructure with Exploration Drill Hole Collar

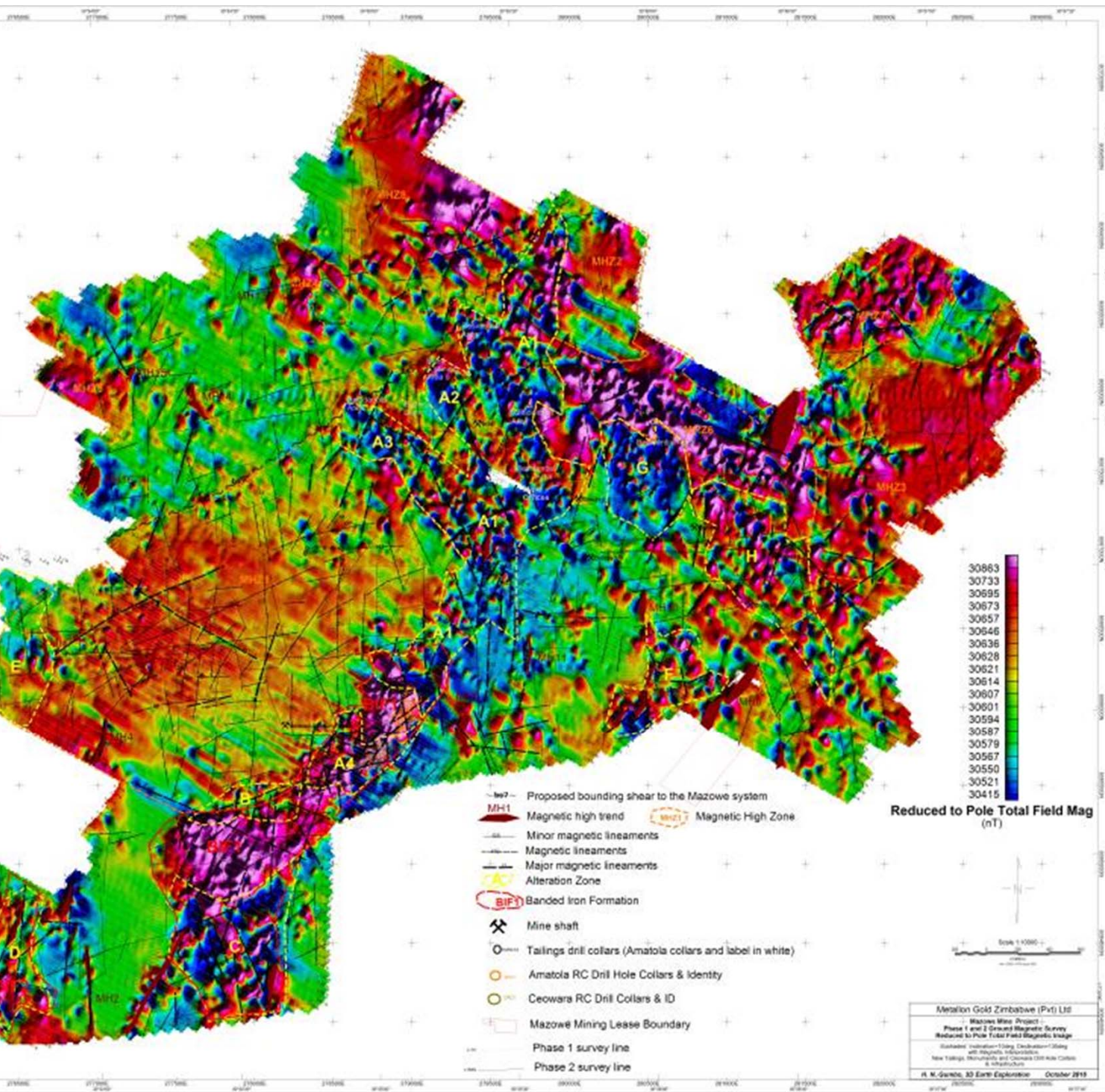


Mazowe Mining Lease total field magnetics contoured at 50nT

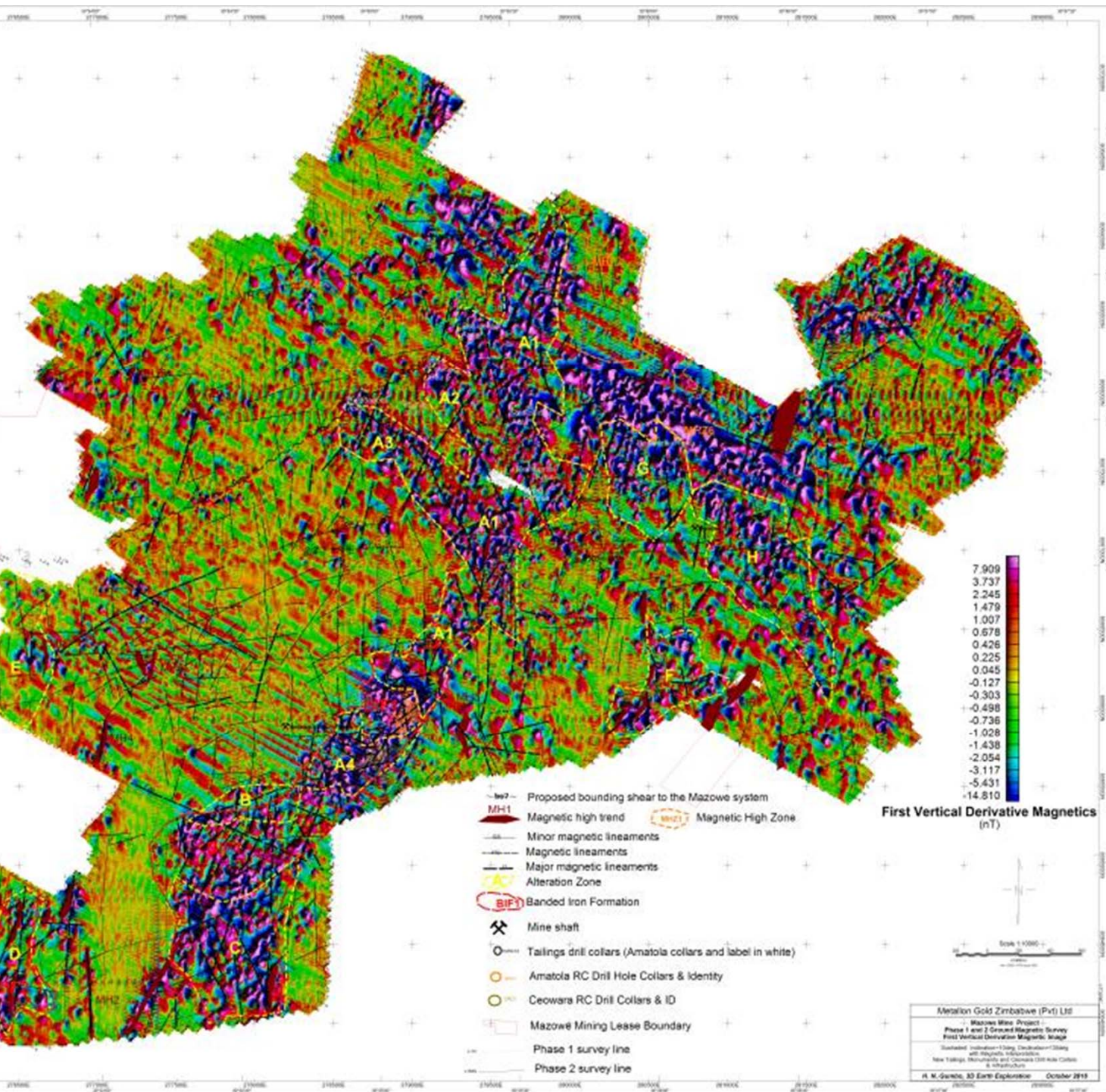




Mazowe Mining Lease reduced to pole total field magnetics contoured at 50

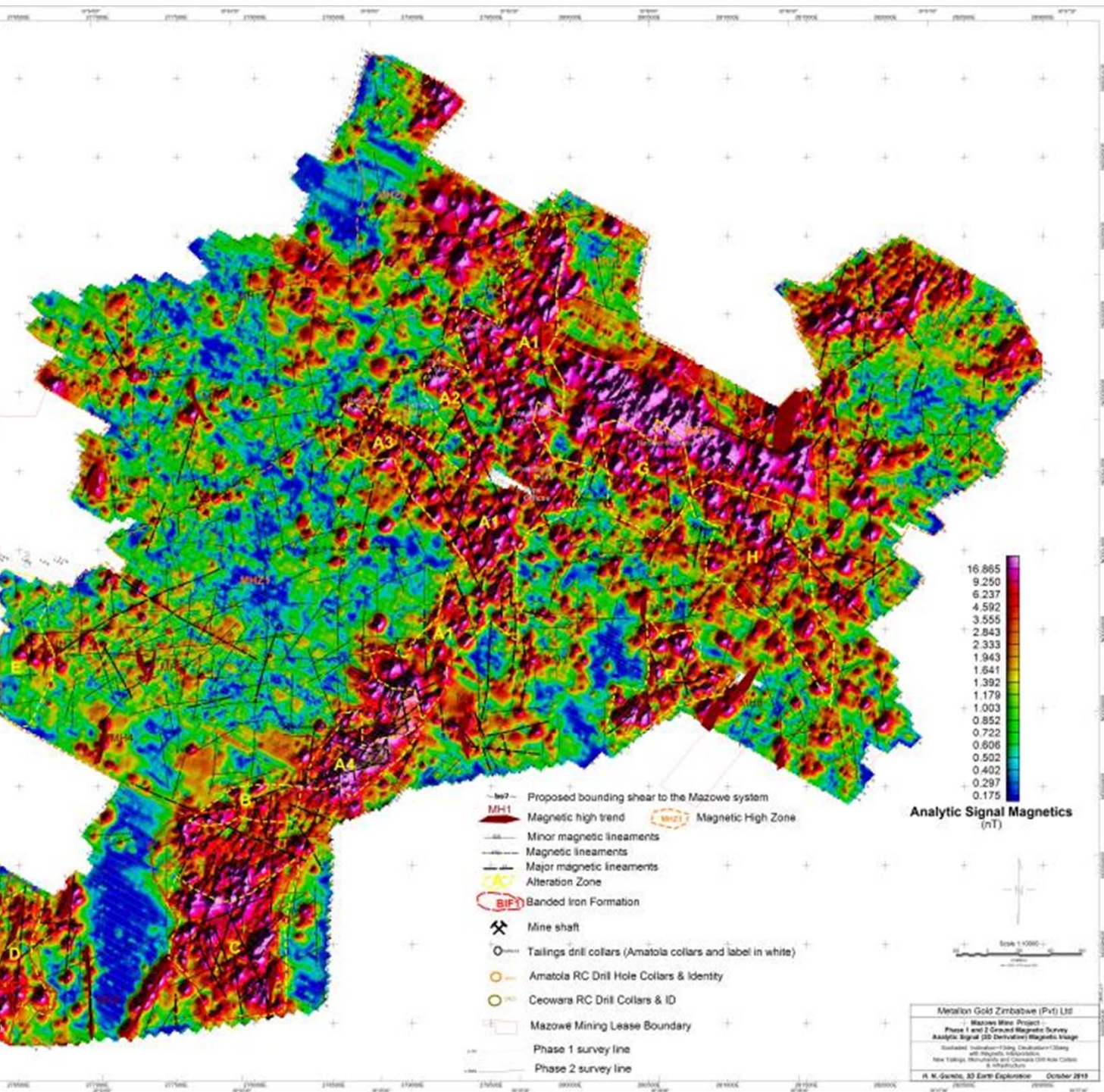


Mazowe Mining Lease reduced to pole total field magnetics with interpretation



Mazowe Mining Lease first vertical derivative with interpretation

Mazowe Mining Lease analytic signal (derivative) with interpretation



Legend:

- Proposed bounding shear to the Mazowe system
- Magnetic high trend
- Minor magnetic lineaments
- Magnetic lineaments
- Major magnetic lineaments
- Alteration Zone
- Banded Iron Formation
- Mine shaft
- Tailings drill collars (Amatola collars and label in white)
- Amatola RC Drill Hole Collars & Identity
- Cedwara RC Drill Collars & ID
- Magnetic High Zone

Map Labels: CARNBRAE, MUREMBEMBE, LEWARA, BIF1, BIF2, Disused 4, Disused 8, Disused 9, Disused 6, Disused 7, Disused 10, Jumbo Shaft, Ogilvy Shaft, XSOS, MH1, MH2, MH3, MH4, MH5, MH6, MH7, MH8, MH9, MH10, MH11, MH12, MH13, MH14, MH15, MH16, MH17, MH18, MH19, MH20, MH21, MH22, MH23, MH24, MH25, MH26, MH27, MH28, MH29, MH30, MH31, MH32, MH33, MH34, MH35, MH36, MH37, MH38, MH39, MH40, MH41, MH42, MH43, MH44, MH45, MH46, MH47, MH48, MH49, MH50, MH51, MH52, MH53, MH54, MH55, MH56, MH57, MH58, MH59, MH60, MH61, MH62, MH63, MH64, MH65, MH66, MH67, MH68, MH69, MH70, MH71, MH72, MH73, MH74, MH75, MH76, MH77, MH78, MH79, MH80, MH81, MH82, MH83, MH84, MH85, MH86, MH87, MH88, MH89, MH90, MH91, MH92, MH93, MH94, MH95, MH96, MH97, MH98, MH99, MH100.

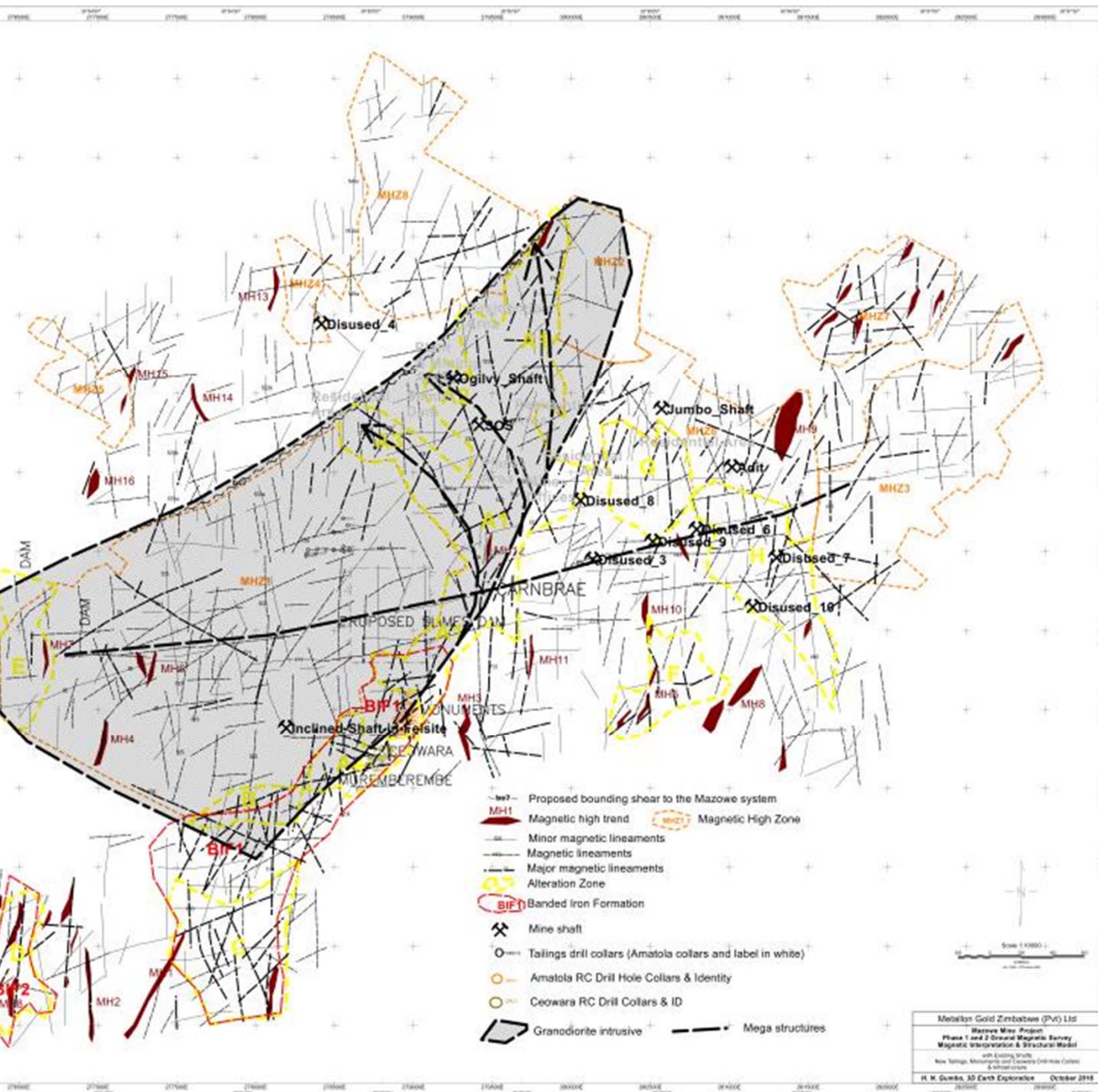
Scale: 1:10000

Map Title: Mazowe Mine Project Phase 1 and 2 Ground Magnetic Survey Magnetic Interpretation

Author: H. M. Dumbo, 3D Earth Exploration

Date: October 2016

Mazowe Mining Lease magnetic interpretation & Structural Model

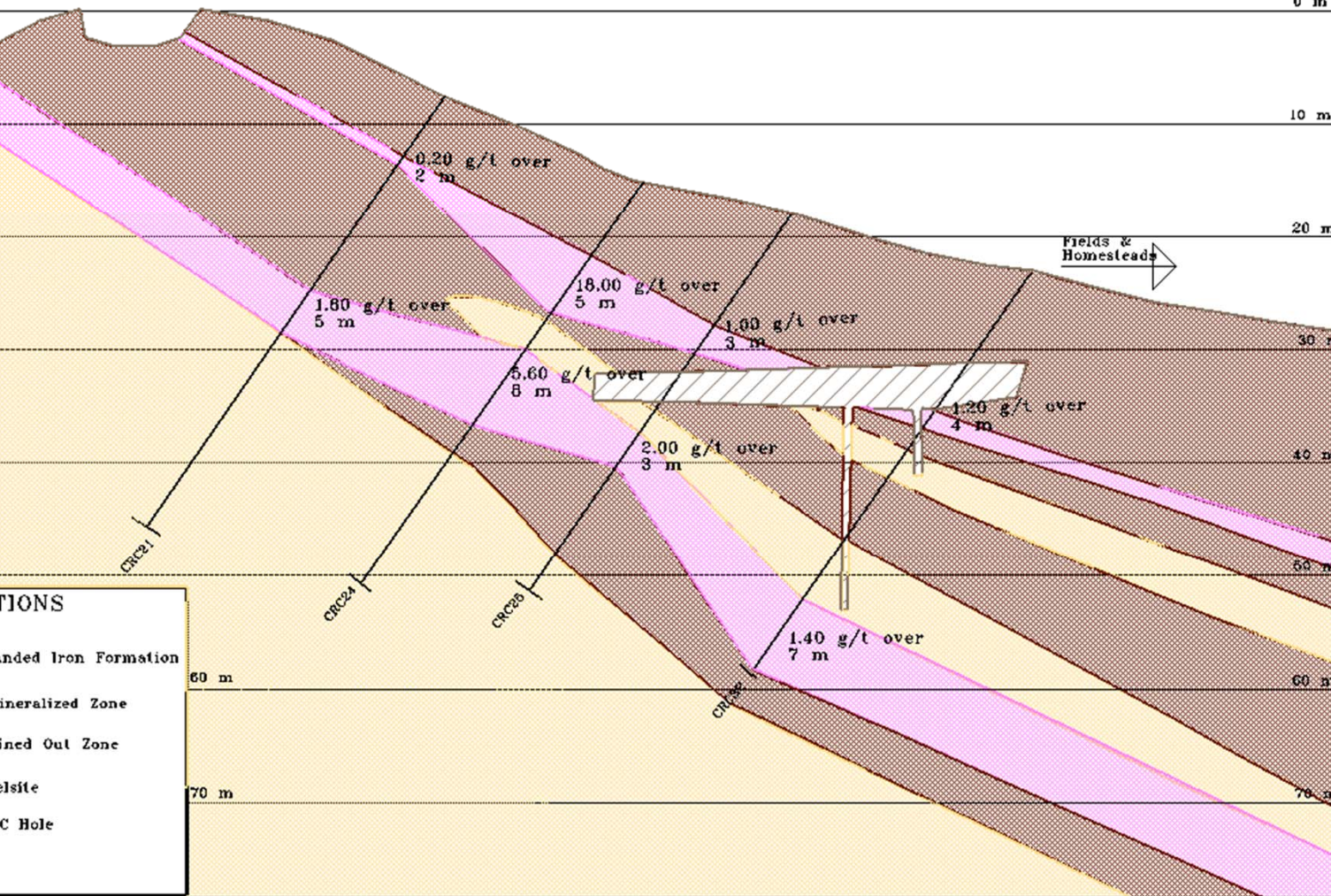




Mazowe Mine
Ceowara Prospect
Section CW 06 Facing SW

SCALE 10 0 10

NW
0 m



Mineralised (purple) Section CW06
Ceowara RC Drill Holes

Mazowe Mine
Ceowara Prospect
Section CW 05 Facing SW

SCALE 10 0 10 metres

NW

0 m

10 m

20 m

30 m

40 m

50 m

60 m

70 m

Fields &
Homesteads

0.9 g/t over
4 m

1.4 g/t over
9 m

2.0 g/t over
7 m

CRC28

CRC27

CRC40

NOTATIONS.

Banded Iron Formation

Mineralized Zone

Mined Out Zone

Felsite

RC Hole - Surveyed

RC Hole - Not Surveyed
Assays Pending

60 m

70 m

Mineralised (purple) Section CW05
Ceowara RC

Mazowe Mine
Ceowara Prospect
Section CW 04 Facing SW

SCALE 10 0 10 metres

NW

0 m

10 m

20 m

30 m

40 m

50 m

60 m

70 m

Fields & Homesteads

1.6 g/t over
10 m

1.0 g/t over
7 m

3.4 g/t over
13 m

Layer : CEOWARA_CONTOURS
Object : OBJ_1

CRC29

50 m

60 m

70 m

ATIONS.

Banded Iron Formation

Mineralized Zone

Mined Out Zone

Felsite

RC Hole - Drilled

Proposed RC Hole

Mineralised (purple) Section CW04
Ceowara RC

Conclusion

- The high resolution ground magnetics has successfully defined the geology, structural and alteration system at Mazowe Mine
- The main corridor of deformation and alteration (5.5x0.5km) hosts the Ceowara Target which is currently being drilled
- Significant gold resources have already been drill indicated at Ceowara
- More gold resources may now be easier to find due to the detailed knowledge of the controls to mineralisation



The End