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GEOLOGICAL AND STRUCTURAL INTERPRETATIONS, CASA BERARDI PROJECT

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Énergie et Ressources naturelles
Québec

Geological and Structural Interpretations

CASA BERARDI PROJECT
Québec, Canada

Report submitted to
Canadian Mining House

January 15, 2013

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CASA BERARDI PROJECT
QUÉBEC, CANADA

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CASA BERARDI PROJECT
QUÉBEC, CANADA

1.0 INTRODUCTION

On behalf of Canadian Mining House, a geological and structural study based on a SPOT satellite image, topography image and magnetic data has been carried out by Technologies Earthmetrix inc. in January 2013 on the Casa Berardi project (delineated by the following rectangle box of coordinates (approx.): from 625000 to 630000E and from 5488000 to 5492000N (UTM ZONE 17N, NAD 83) at scale 1: 5,000. The Casa Berardi property is situated in Abitibi-Témiscamingue approximately 100 km north of the town of la Sarre in Casa Berardi township (NTS Sheet Map 32E11).

The main objective sought for this study is to determine most promising exploration targets within the property from identified structures and geology. The interpretation has been realized at 1: 5,000.

This report presents results obtained for this study and identified exploration targets that should be investigated in the Casa Berardi property.

Outputs are:

Structural and geological maps at scale 1: 50,000 with exploration targets;
A short technical report in PDF;
Project's data files (Interpretation, images and technical report (including figures)).

2.0 AREA OF INTEREST LOCALIZATION

The Casa Berardi property is situated in Abitibi-Témiscamingue approximately 100 km north of the town of la Sarre in Casa Berardi township (NTS Sheet Map 32E11). The area of interest is shown in figures 1 and 2. The area of interest covers approximately 2.6 km^2. Figure 2a shows the claims map of property.

Figure 1: Regional Location map (scale 1 : 8,000,000)

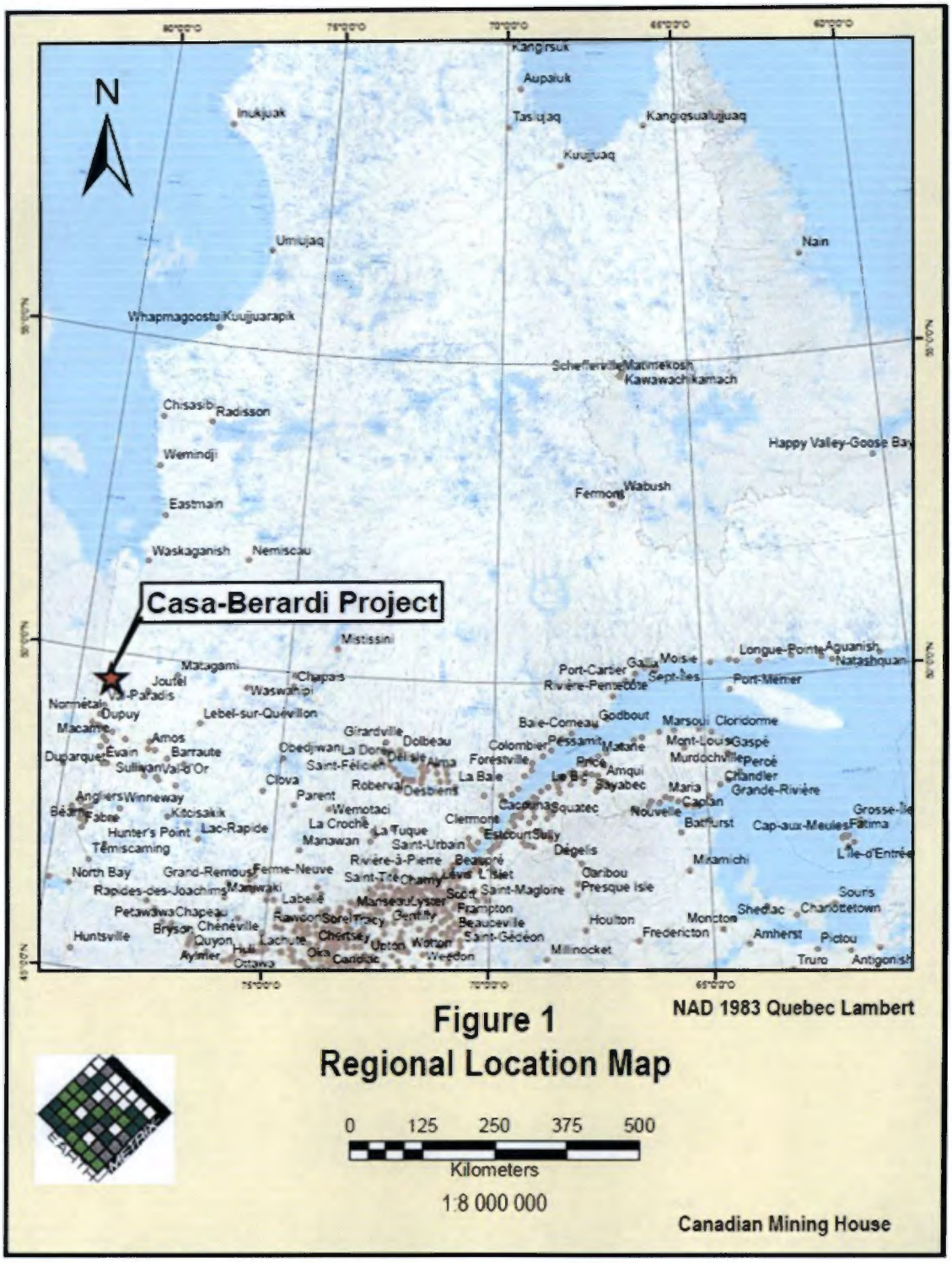


Figure 2 : Property Location Map (scale 1 : 50,000)

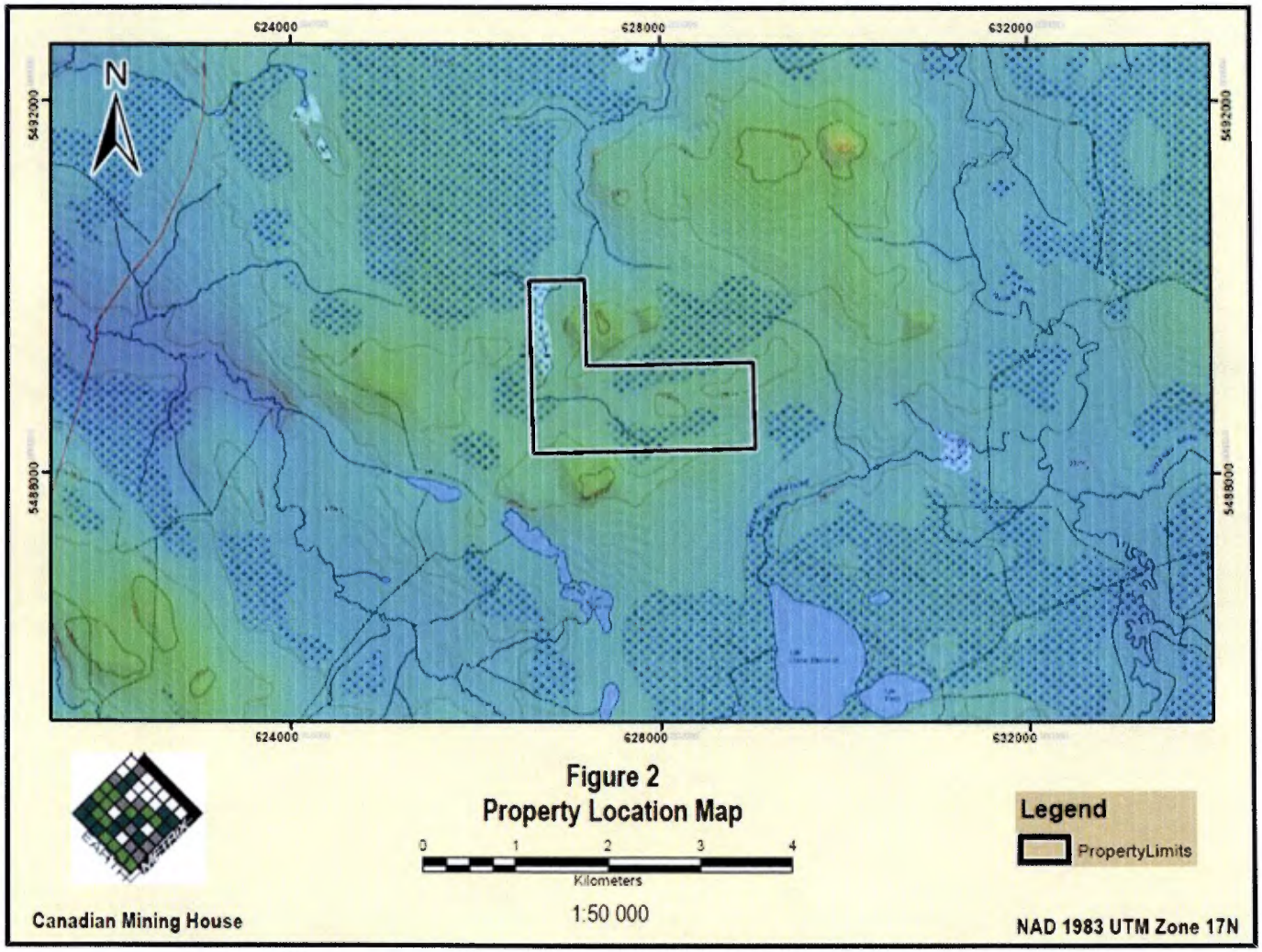
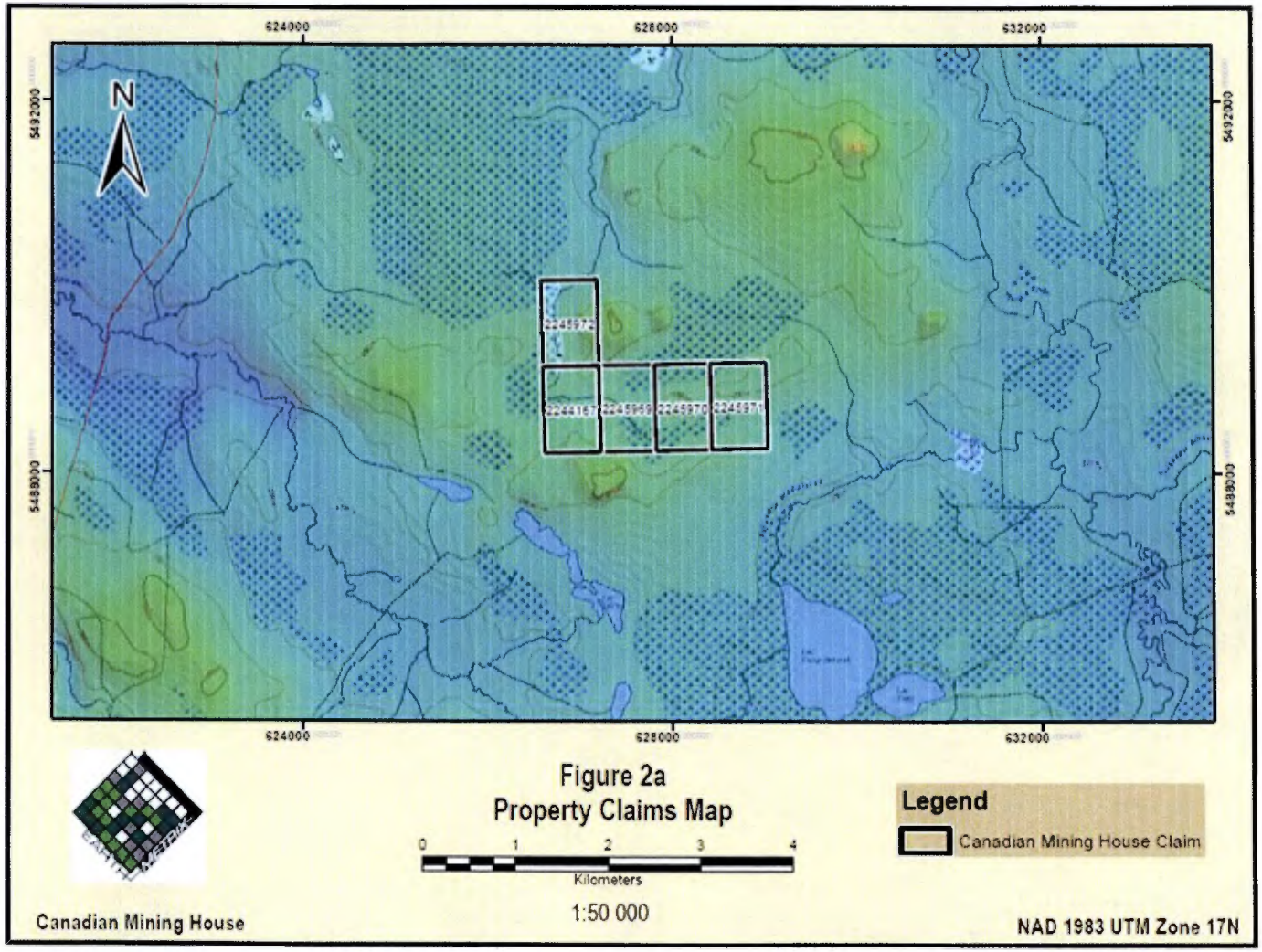


Figure 2a : Property Claims Map (scale 1 : 50,000)



3.0 DATA

Data used for this study come from many sources: a multispectral SPOT image sampled at 10 m resolution (2002); a 1:50,000 topographic image (2009), magnetic total field and and geological map from the MRN (Quebec). The average localization precision of the SPOT image, both absolute and relative are respectively 15 m (CE90) and 5 m (CE90); bigger errors may occur in higher topographic gradients areas (that are unlikely to occur in the vicinity of the Casa Berardi property, a relatively flat area).

4.0 GEOLOGICAL AND STRUCTURAL INTERPRETATIONS

Figure 3 and Figure 4 show respectively the geological and total field magnetics maps generated by the MRN

Figure 5 shows the structural map generated by EarthMetrix's STRUCT software.

The structural interpretation is based on numerical processing technologies/ methodologies applied on digital data. Data were enhanced and processed by STRUCT 3.1 technology (a proprietary technology that maps brittle and ductile structures from digital data). A manual edition has been performed in order to eliminate spurious structures and artefacts in digital data that aren't geological features. This approach allows us to maximize the information that could be extracted from the data. **We haven't determined dip measurements of the structures (our technology allows us to do so).**

We have performed the structural interpretation at 1:5,000 with the identification of brittle and ductile structures. Structures identified at these scales generally correspond to geological features. Interpretation precision of the structures is approximately 4m and structures are correlated about 90% with geological elements.

Structural exploration targets correspond to the intersection of discordant ductile zones (inferred EW geology) with NNE brittle fault zones.

Figure 3: Geological Map (scale 1:50,000)

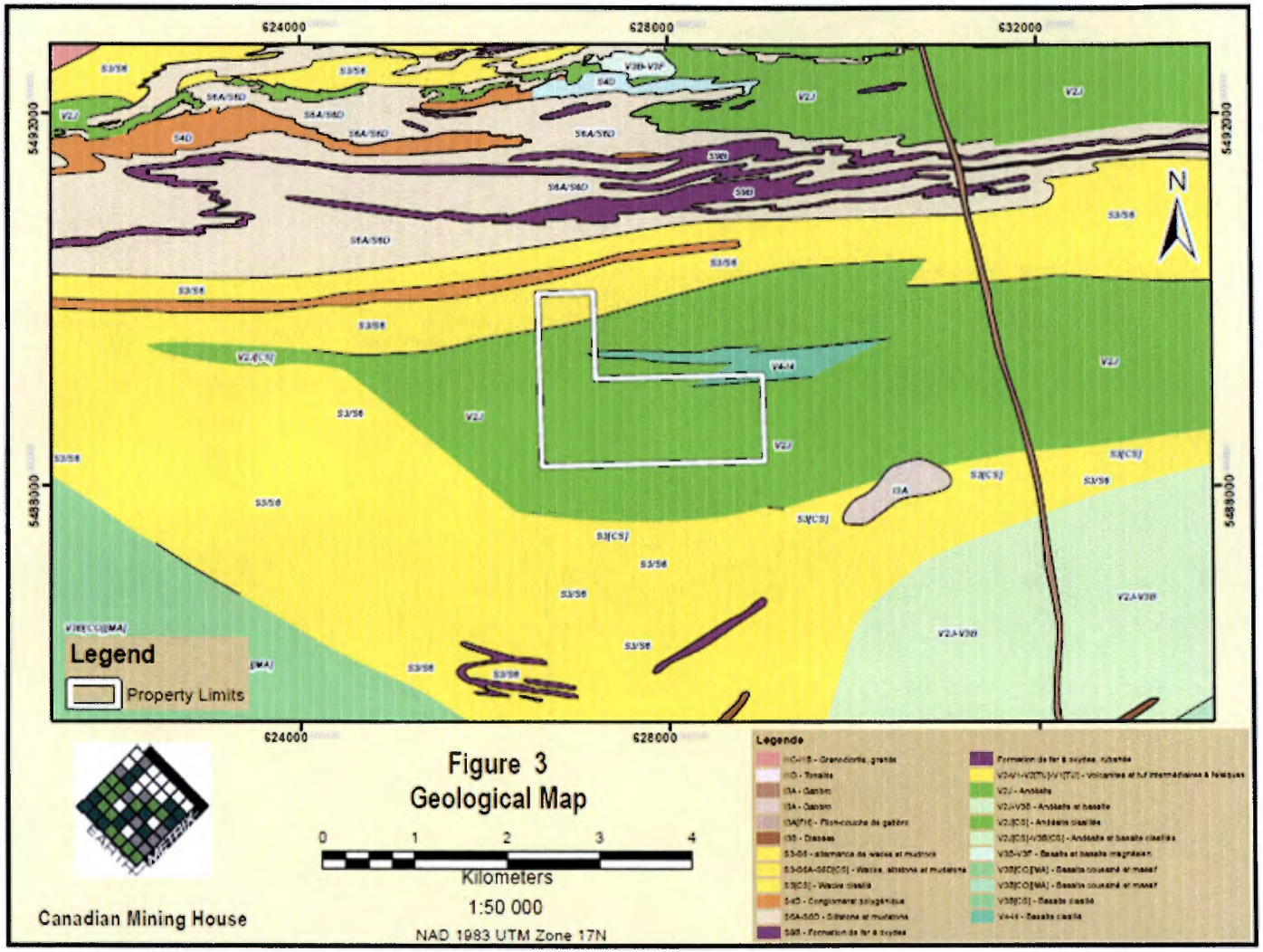


Figure 4: Total Field Magnetics Map (scale 1:100,000)

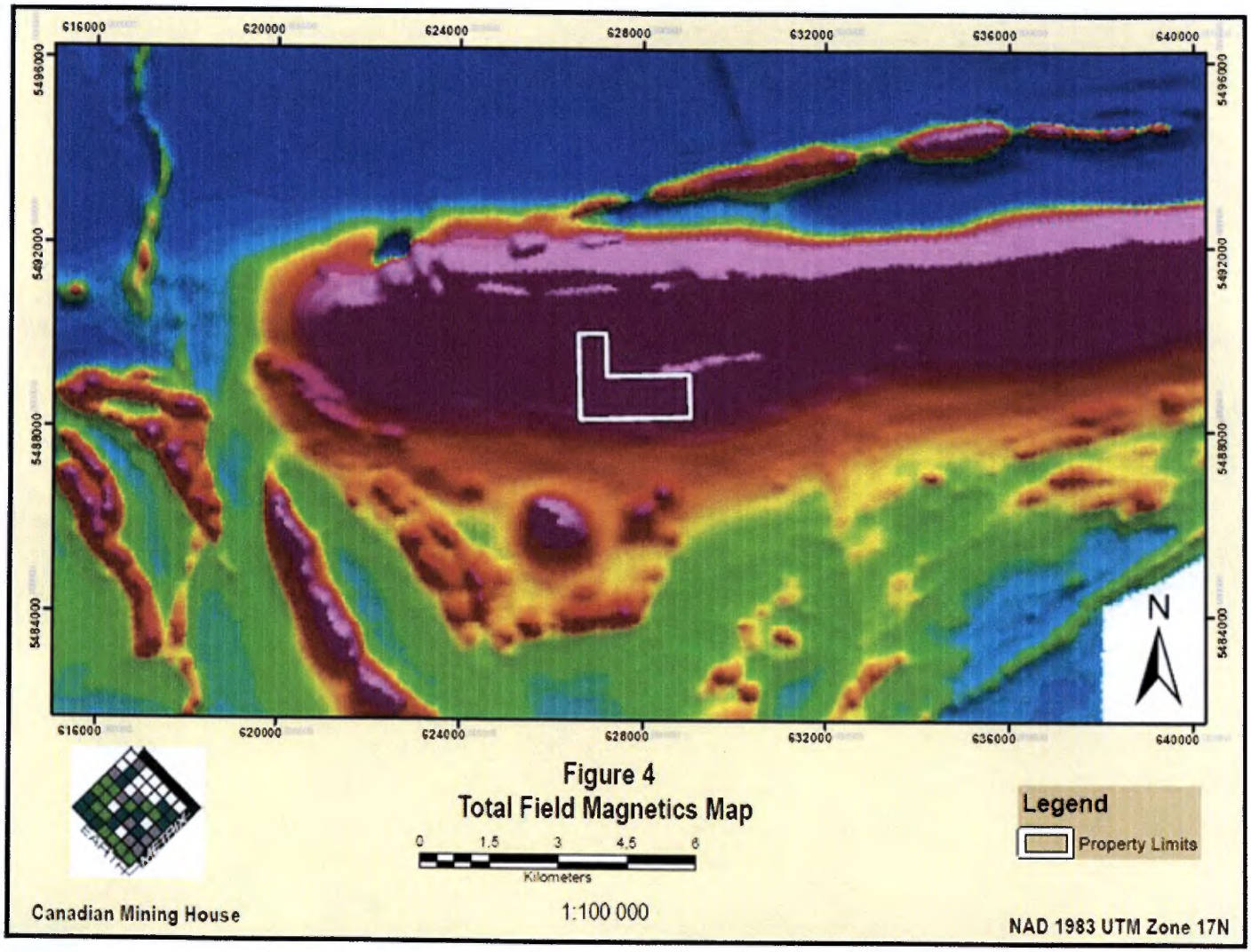
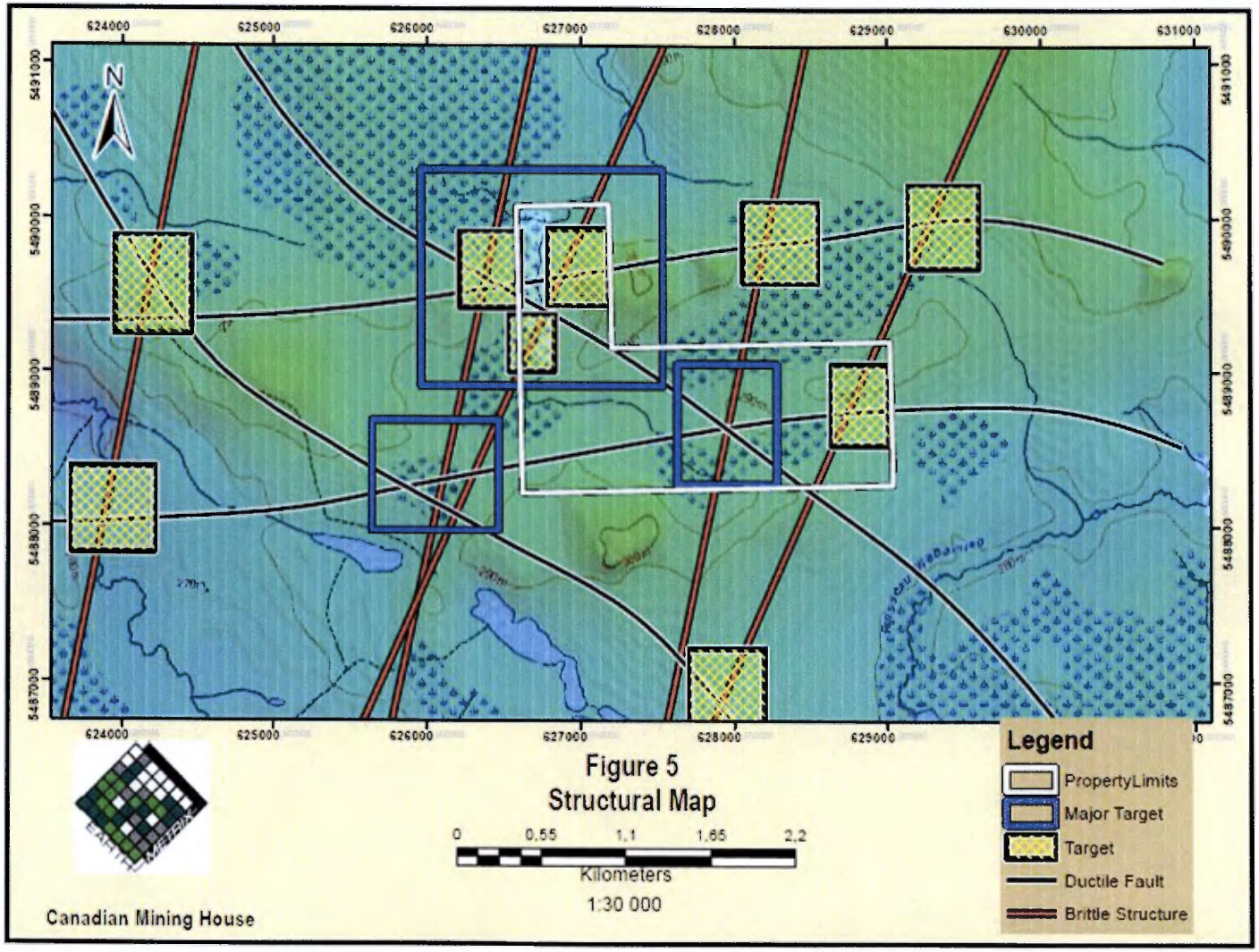


Figure 5: Structural Map (scale 1:30,000)



5.0 EXPLORATION TARGETS DESCRPTION

PROPERTY SCALE STUDY (1 : 50,000, figures 3 to 5)

- More or less NW discordant ductile features that are compliant with the geological map of the area
- EW ductile fault zones
- NNE to NE brittle structures discordant with the EW stratigraphy.

One major and three high priority exploration targets have been defined and correspond to the intersection of EW and NW ductile structures with NNE brittle structures.

These four targets are interpreted as drill hole targets.

6.0 CONCLUSION

This geological/structural study performed on the Casa Berardi property allowed us to determine major structural features that are favourable for Au mineralization.

Therefore, it is recommended to:

1) Do a property follow-up by drilling the three structural targets identified in this study.



Alain Moreau, P.Geo (OGQ #1298), M.A Sc. Geological Engineering
Président Technologies Earthmetrix Inc.
Montréal, this January 15, 2013

APPENDIX

Certification

Certification

I, Alain Moreau (OGQ #1298), do hereby certify that:

1. I am a consultant geologist for EarthMetrix Technologies Inc., located at 6661, des Écores, Montreal, Quebec, H2G 2J8;

2. I graduated from École Polytechnique de Montréal with a Master Degree in Geological Engineering (M.A.Sc., 1987). I also have an Honours Bachelor Degree from Université de Montréal (B.Sc., 1980). I have practised my profession continuously since that time.

3. I am a member of the Ordre des Géologues du Québec, # 1298;

4. I work in the Mining Industry since 25 years;

5. I am responsible for the preparation of this report (Casa Berardi property). The work has been executed from December to January 2013;

6. I have no personal knowledge as of the date of this certificate of any material fact or change, which is not reflected in this report;

7. I do not have at present any implication or interests in the Casa Berardi property;

8. I am independent from Canadian Mining House;

9. I have read the NI 43-101 guidelines and have prepared the technical report in compliance with these and in conformity with generally accepted mineral exploration industry practices;

10. I consent the use of this report for assessment work and disclosure to regulatory authorities.

Dated, this January 15, 2013, in Montreal, Québec, Canada



Alain Moreau
Geologist, M.A.Sc., P. Geo.